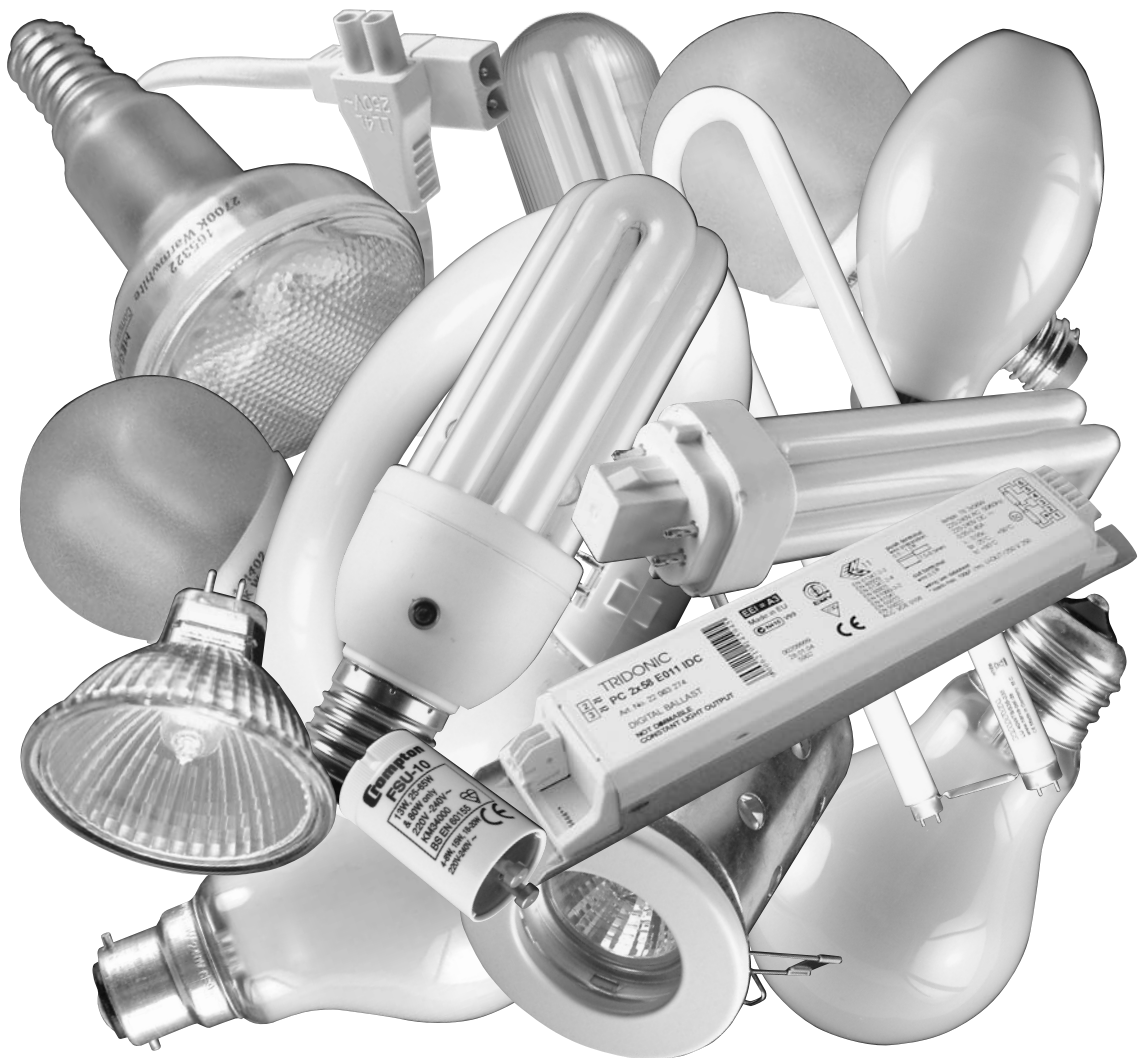


International Lamps Ltd

Incorporating **National Lamps
and Components**



**General Service Lighting
& Control Gear**

BATTERIES Page

Nickel Cadmium	126
Sealed Lead Acid	127

COLOURED LAMPS Page

Dichroic	32,33,40
Incandescent	4,7,16,19-27
"K Class" Linear	30
PAR	25

COMPACT FLUORESCENT Page

2D	59
Ambiance	54
DuluxF, LynxF	56
Globe	53
PLC, DuluxD, LynxD	57
PLC, DuluxDE, LynxDE, BiaxDE	57
PLL, DuluxL, BiaxL, LynxL/LE	56
PLS, DuluxS, BiaxS, LynxS	55
PLS, DuluxSE, BiaxSE, LynxSE	55
PLT, DuluxT, BiaxT, LynxT	58
PLT/E, DuluxTE, BiaxTE, LynxTE	58
Reflector EL	52
SL Prismatic	52
Starters	59
Tubular	52,54

CONTROL GEAR Page

Atlas	116-122
Low Voltage Electronic Transformers	123
Philips	105-110
Transtar	111-115
Tridonic	100-104
Venture	88-99

DISCHARGE LIGHTING Page

GE-Arcstream, CSI, MBIL, Kolorarc, Multivapour	72-74
High Pressure Sodium Lamps	81-87
HQL Deluxe, MBFU, HPL Comfort	78
HQL-R Deluxe, MBF-R, HPL-R	79
HQLSD Super Deluxe, MBFSD	78
HWLR Deluxe, MBFTR, MLR	80
Kolorlux DX long life	79
Mercury Lamps	78-80
Metal Halide	60-77
Osram-HQI, Powerstar	70-71
Philips-CDM, HPI, MHD, MHN	75-77
SDW-T	87
SON Extra	85
SON-E	81-82
SON-H	85
SON-L	87
SONP-T	84
SONP-TS	87
SON-R	86
SON-T	83-84
SON-T Agro	84
SON-TD	87
SON-TS	86
SOX/SOX-E/SOX Plus	80-81
Vialox Nav 4Y	86
GE	72-74
OSRAM	70-71
PHILIPS	75-77
VENTURE	60-69

FLUORESCENTS Page

Circular/Round	51
Germicidal	50
Grolux	49
Insectocutor Black Light BL350	50
Special mod-u-line	51
Sunbed/Tanning	48
T12 standard	47
T2 miniature	44
T5 standard	44
T8 standard	45-46
TLX-single pin	49
U-Tubes	51

PRODUCT INDEX

INCANDESCENT/GENERAL	Page
Appliance/oven	12-14
Architectural	24
Candle	8-11
Craftlight	4,25
Crown silvered	22
Daylight simulation	25
Decor round	16-18
Fireglow	4
Globe	16-18
GLS (General Lighting Service)	1-25
GLS coloured	4
Golf Ball (Round Lamps)	16-17
Low voltage GLS	1
Mirrored lamps	22
Mushroom	5
PAR Lamps	25,38,39
Picture lamps tubular	15
Pluslife/longlife/super	3
Pygmy	6,7
Reflector	19-22
Rough service GLS	3
Sealed Beam Reflector	25
Standard GLS	2
Striplights	23
Traffic signal	5
LAMP HOLDERS	Page
B22d	136
BA15d, BA15s	136
BA20d, BA20s	136
E11	132
E14	134
E27	134
E40	136
FC2	132,136
G12, PG12	136
G38	132
G4, GZ4	128
G5.3, GX5.3, GY5.3, G3.9	128
G5.3-4.8	128
G6.35, GX6.35, GY6.35, GZ6.35	130
G8.5, G9, GZ10	130
GY16, GX16D, G17Q	130
GY22, P28S	132
GY9.5, GX9.5	130
P28s	136
R7s, RX7s	132
Shade circular ring	134

LIGHT FITTINGS	Page
Low voltage downlighters	124
Low voltage eyeballs	124
R64 mains voltage downlighters	125
R80 mains voltage downlighters	125

REFLECTOR LAMPS	Page
R14	19
R39	19
R50	19
R64	20
R80	20
R95	21,22
R125	22

STARTERS	Page
Fluorescent	59

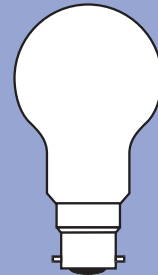
TUNGSTEN HALOGEN	Page
Aluminium reflector	32
Capsules	42,43
Dichroic	33-41
Halogena	28
Halolux	26,27
Halostar AR	31
Halostar AR111	31
Hi-spot	38,39
IDE/IODE	30
JD Class	26
"K Class" - Linear	29,30
Linear Floodlights	29,30
Low Voltage Display	31-38
MR11 Dichroics	33-35
MR16 Dichroics	35-37,41
PAR16, 20, 25, 30	38-39
Powerbeam reflector	32
Reflekto coloured back	40
Single ended	26-28
TAL 100	38

GENERAL SERVICE LIGHTING

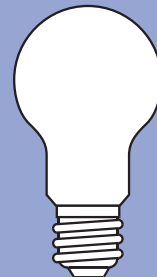
ORDER CODE	VOLTS	FINISH	WATTS	BASE
GS1215C22	12	Clear	15	B22d
GS1240C22	12	Clear	40	B22d
GS1260P22	12	Pearl	60	B22d
GS1260P27	12	Pearl	60	E27
GS2525C22	25	Clear	25	B22d
GS2525P22	25	Pearl	25	B22d
GS2525C27	25	Clear	25	E27
GS2525P27	25	Pearl	25	E27
GS2540C22	25	Clear	40	B22d
GS2540P22	25	Pearl	40	B22d
GS2540C27	25	Clear	40	E27
GS2540P27	25	Pearl	40	E27
GS2540C223	25	Clear	40	B22d/3
GS2540P223	25	Pearl	40	B22d/3
GS2560C22	25	Clear	60	B22d
GS2560P22	25	Pearl	60	B22d
GS2560C27	25	Clear	60	E27
GS2560P27	25	Pearl	60	E27
GS25100C22	25	Clear	100	B22d
GS25100P22	25	Pearl	100	B22d
GS25100C27	25	Clear	100	E27
GS25100P27	25	Pearl	100	E27
GS5025C22	50	Clear	25	B22d
GS5025P22	50	Pearl	25	B22d
GS5025C27	50	Clear	25	E27
GS5025P27	50	Pearl	25	E27
GS5040C22	50	Clear	40	B22d
GS5040P22	50	Pearl	40	B22d
GS5040C27	50	Clear	40	E27
GS5040P27	50	Pearl	40	E27
GS5060C22	50	Clear	60	B22d
GS5060P22	50	Pearl	60	B22d
GS5060C27	50	Clear	60	E27
GS5060P27	50	Pearl	60	E27
GS50100C22	50	Clear	100	B22d
GS50100P22	50	Pearl	100	B22d
GS50100C27	50	Clear	100	E27
GS50100P27	50	Pearl	100	E27
GS50300C40	50	Clear	300	E40
GS50300P40	50	Pearl	300	E40
GS11015C22	110	Clear	15	B22d
GS11015C27	110	Clear	15	E27
GS11025C22	110	Clear	25	B22d
GS11025P22	110	Pearl	25	B22d
GS11025C27	110	Clear	25	E27
GS11025P27	110	Pearl	25	E27
GS11040C22	110	Clear	40	B22d
GS11040P22	110	Pearl	40	B22d
GS11040P27	110	Pearl	40	E27
GS11060C22	110	Clear	60	B22d
GS11060P22	110	Pearl	60	B22d
GS11060C27	110	Clear	60	E27
GS11060P27	110	Pearl	60	E27
GS110100C22	110	Clear	100	B22d
GS110100P22	110	Pearl	100	B22d
GS110100C27	110	Clear	100	E27
GS110100P27	110	Pearl	100	E27

GLS LAMPS PEARL OR CLEAR

Standard GLS Incandescent Lamps.
1000 hours life.
Available in BC, ES and GES Caps.
Finished in Clear or Pearl.



BC

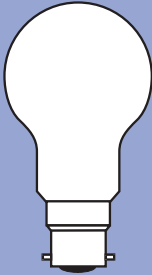


ES

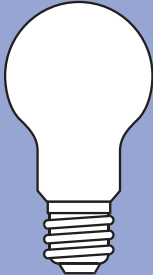
GENERAL SERVICE LIGHTING

GLS LAMPS PEARL OR CLEAR

Standard GLS Incandescent Lamps.
1000 hours life.
Available in BC, ES and GES Caps.
Finished in Clear or Pearl.



BC



ES

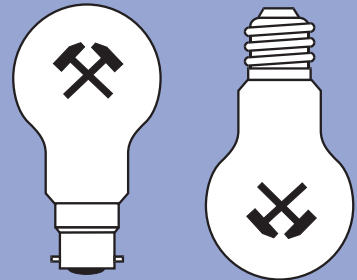
ORDER CODE	VOLTS	FINISH	WATTS	BASE
GS110150C22	110	Clear	150	B22d
GS110150P22	110	Pearl	150	B22d
GS110150C27	110	Clear	150	E27
GS110150P27	110	Pearl	150	E27
GS110200C27	110	Clear	200	E27
GS110200P27	110	Pearl	200	E27
GS110300C40	110	Clear	300	E40
GS110300P40	110	Pearl	300	E40
GS110500C40	110	Clear	500	E40
GS110500P40	110	Pearl	500	E40
GS2408P22	240	Pearl	5-8	B22d
GS24015C22	240	Clear	15	B22d
GS24015P22	240	Pearl	15	B22d
GS24015C27	240	Clear	15	E27
GS24025C22	240	Clear	25	B22d
GS24025P22	240	Pearl	25	B22d
GS24025C27	240	Clear	25	E27
GS24025P27	240	Pearl	25	E27
GS24040C22	240	Clear	40	B22d
GS24040P22	240	Pearl	40	B22d
GS24040C27	240	Clear	40	E27
GS24040P27	240	Pearl	40	E27
GS24060C22	240	Clear	60	B22d
GS24060P22	240	Pearl	60	B22d
GS24060C27	240	Clear	60	E27
GS24060P27	240	Pearl	60	E27
GS24075C22	240	Clear	75	B22d
GS24075P22	240	Pearl	75	B22d
GS24075C27	240	Clear	75	E27
GS24075P27	240	Pearl	75	E27
GS240100C22	240	Clear	100	B22d
GS240100P22	240	Pearl	100	B22d
GS240100C27	240	Clear	100	E27
GS240100P27	240	Pearl	100	E27
GS240150C22	240	Clear	150	B22d
GS240150P22	240	Pearl	150	B22d
GS240150C27	240	Clear	150	E27
GS240150P27	240	Pearl	150	E27
GS240200C22	240	Clear	200	B22d
GS240200P22	240	Pearl	200	B22d
GS240200P27	240	Pearl	200	E27
GS240300C40	240	Clear	300	E40
GS240300P40	240	Pearl	300	E40
GS240500C40	240	Clear	500	E40
GS240500P40	240	Pearl	500	E40
GS240750C40	240	Clear	750	E40
GS240750P40	240	Pearl	750	E40
GS2401KC40	240	Clear	1000	E40
GS2401KP40	240	Pearl	1000	E40

GENERAL SERVICE LIGHTING

ORDER CODE	VOLTS	FINISH	WATTS	BASE
GSRS5060C22	50	Clear	60	B22d
GSRS5060P22	50	Pearl	60	B22d
GSRS11025P22	110	Pearl	25	B22d
GSRS11040P22	110	Pearl	40	B22d
GSRS11040P27	110	Pearl	40	E27
GSRS11060P22	110	Pearl	60	B22d
GSRS11060P27	110	Pearl	60	E27
GSRS110100P22	110	Pearl	100	B22d
GSRS110100P27	110	Pearl	100	E27
GSRS25025P22	250	Pearl	25	B22d
GSRS25040C22	250	Clear	40	B22d
GSRS25040P22	250	Pearl	40	B22d
GSRS25040C27	250	Clear	40	E27
GSRS25040P27	250	Pearl	40	E27
GSRS25060C22	250	Clear	60	B22d
GSRS25060P22	250	Pearl	60	B22d
GSRS25060P27	250	Pearl	60	E27
GSRS250100C22	250	Clear	100	B22d
GSRS250100P22	250	Pearl	100	B22d
GSRS250100P27	250	Pearl	100	E27

GLS ROUGH SERVICE LAMPS PEARL OR CLEAR

A range of lamps available in BC and ES manufactured for use in areas where vibration or mechanical shock may be excessive.



BC

ES

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	BASE
GSPL24025C22	200-250	Clear	25	3000	B22d
GSPL24025P22	200-250	Pearl	25	3000	B22d
GSPL24040C22	240	Clear	40	3000	B22d
GSPL24040P22	240	Pearl	40	3000	B22d
GSPL25040P22	250	Pearl	40	3000	B22d
GSPL24040P27	240	Pearl	40	3000	E27
GSPL24060C22	240	Clear	60	3000	B22d
GSPL24060P22	240	Pearl	60	3000	B22d
GSPL25060P22	250	Pearl	60	3000	B22d
GSPL24060C27	240	Clear	60	3000	E27
GSPL24060P27	240	Pearl	60	3000	E27
GSPL240100C22	240	Clear	100	3000	B22d
GSPL240100P22	240	Pearl	100	3000	B22d
GSPL240100P27	240	Pearl	100	3000	E27
GSPL240150P22	240	Pearl	150	3000	B22d
GSPL240150P27	240	Pearl	150	3000	E27

GLS PLUSLIFE LAMPS PEARL OR CLEAR

CAP. B22d (BC), E27 (ES)

A high quality range of extended life

GLS Lamps

which is

ideal for

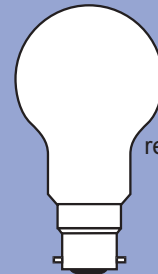
applications

where

replacement is

difficult or

inconvenient.



BC

SS24040C22	240	Clear	40	16000	B22d
SS24040P22	240	Pearl	40	16000	B22d
SS24040C27	240	Clear	40	16000	E27
SS24040P27	240	Pearl	40	16000	E27
SS24060C22	240	Clear	60	16000	B22d
SS24060P22	240	Pearl	60	16000	B22d
SS24060C27	240	Clear	60	16000	E27
SS24060P27	240	Pearl	60	16000	E27
SS24075C22	240	Clear	75	16000	B22d
SS24075P22	240	Pearl	75	16000	B22d
SS24075C27	240	Clear	75	16000	E27
SS24075P27	240	Pearl	75	16000	E27
SS240100C22	240	Clear	100	16000	B22d
SS240100P22	240	Pearl	100	16000	B22d
SS240100C27	240	Clear	100	16000	E27
SS240100P27	240	Pearl	100	16000	E27

GLS SUPER SERVICE LAMPS PEARL OR CLEAR

LONG LIFE 16000 HRS

A range of lamps manufactured to high specification to reduce maintenance costs. A quality

European made lamp which lasts

16 times longer than a standard GLS.

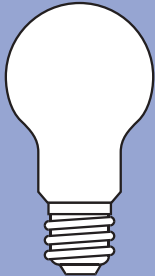
Ideal for reducing maintenance costs

in all commercial premises.

GENERAL SERVICE LIGHTING

GLS CRAFTLIGHT LAMPS (Daylight Simulation)

Craftlight lamps have a transparent blue glass which absorbs the yellow part of the spectrum to provide simulated daylight.

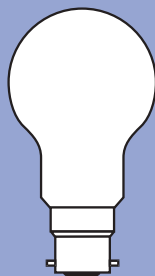


ES

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	BASE
0055	240	Blue	40	1000	B22d
0056	240	Blue	40	1000	E27
0052	240	Blue	60	1000	E27
0051	240	Blue	60	1000	B22d
0053	240	Blue	100	1000	E27
0054	240	Blue	100	1000	B22d
0057	240	Blue	150	1000	B22d

GLS COLOURED LAMPS

A range of SOLID COLOUR GLS lamps for Decorative use.



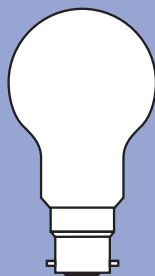
BC

GS24025R22	240	Red	25	1000	B22d
GS24025Y22	240	Yellow	25	1000	B22d
GS24025G22	240	Green	25	1000	B22d
GS24025B22	240	Blue	25	1000	B22d
GS24025A22	240	Amber	25	1000	B22d

FIREGLOW LAMPS

61 x 109mm

CAP. BC OR BC 3PIN, E27 (ES)



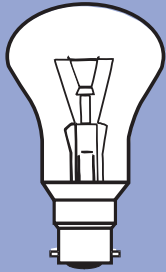
BC

FIREGLOWB	240	Ruby Red	60	1000	B22d
FIREGLOWES	240	Ruby Red	60	1000	E27
FIREGLOW3BC	240	Ruby Red	60	1000	B22d/3

GENERAL SERVICE LIGHTING

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	FILAMENT FORM
ST7125	130	Clear	50	8000	Multi
ST9747	130	Clear	70	8000	Multi
ST9719	230	Clear	55	8000	Multi
ST9749	230	Clear	70	8000	Multi

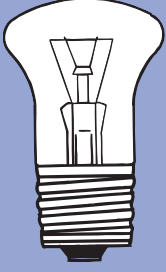
TRAFFIC SIGNAL LAMPS
CLEAR
 CAP. B22d (BC)
 KRYPTON FILLED



BC

ST9716	130	Clear	55	8000	Multi
ST9746	130	Clear	70	8000	Multi
ST9540	230	Clear	54	8000	Multi
TRAFFIC	240	Clear	60-65	8000	Multi
ST9543	230	Clear	75	8000	Multi
ST9546	230	Clear	100	8000	Multi

TRAFFIC SIGNAL LAMPS
CLEAR
 CAP. E27 (ES)
 KRYPTON FILLED

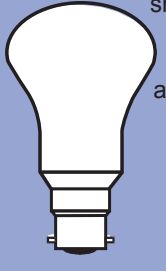


ES

GSMR2404022	240	Opal	40	1000	Multi
GSMR2406022	240	Opal	60	1000	Multi
GSMR24010022	240	Opal	100	1000	Multi
GSMR24015022	240	Opal	150	1000	Multi

MUSHROOM DECOR LAMPS
OPAL
 CAP. B22d (BC)

A small range of decorative shape lamps for use in domestic applications.



BC

GENERAL SERVICE LIGHTING

PYGMY/SIGN LAMPS

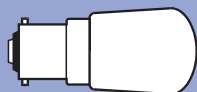
CAP B15d (SBC) 29 x 64mm

CAP B22d (BC) 29 x 59mm

CAP E14 (SES) 29 x 66mm

CAP E27 (ES) 29 x 61mm

A range of clear pygmy lamps suitable for a variety of applications which include panel indication, household appliances, sewing machines etc.



SBC



BC



SES



ES

PYGMY/SIGN LAMPS

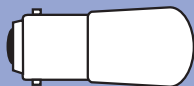
ROUGH SERVICE

CAP B15d (SBC) 29 x 64mm

CAP B22d (BC) 29 x 59mm

CAP E14 (SES) 29 x 66mm

A limited range of pygmy lamps in rough service construction which are suitable for areas subjected to shock or vibration.



BC

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	BASE
61/25/15/E	25	Clear	15	1000	E27
59/25/15/B	25	Clear	15	1000	B22d
64/25/15/B	25	Clear	15	1000	B15d
66/25/15/E	25	Clear	15	1000	E14
61/50/15/E	50	Clear	15	1000	E27
59/50/15/B	50	Clear	15	1000	B22d
64/50/15/B	50	Clear	15	1000	B15d
66/50/15/E	50	Clear	15	1000	E14
61/130/15/E	130	Clear	15	1000	E27
59/130/15/B	130	Clear	15	1000	B22d
64/130/15/B	130	Clear	15	1000	B15d
66/130/15/E	130	Clear	15	1000	E14
61/250/15/E	250	Clear	15	1000	E27
59/250/15/B	250	Clear	15	1000	B22d
64/250/15/B	250	Clear	15	1000	B15d
66/250/15/E	250	Clear	15	1000	E14
61/250/25/E	250	Clear	25	1000	E27
59/250/25/B	250	Clear	25	1000	B22d
64/250/25/B	250	Clear	25	1000	B15d
66/250/25/E	250	Clear	25	1000	E14
59/300/15/B	260/300	Clear	15	1000	B22d

PR2501522	250	Clear	15	1000	B22d
PR2501515	250	Clear	15	1000	B15d
PR2501514	250	Clear	15	1000	E14
PR2502522	250	Clear	25	1000	B22d
PR2502515	250	Clear	25	1000	B15d
PR2502514	250	Clear	25	1000	E14

GENERAL SERVICE LIGHTING

CANDLE LAMPS - PLAIN 35mm

A large range of lamps available in a plain, pearl or clear envelope with either BC, SBC, SES, or ES caps.



BC



SES

CANDLE LAMPS - PLAIN 46mm

The larger plain candle popular in commercial luminaries with aesthetic appeal.



BC

CANDLE LAMPS - PLAIN 35mm LONG LIFE

A range of candle lamps manufactured to a high specification to reduce maintenance costs.



SES

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	BASE
CC1256015	125	Clear	60	1000	B15d
CC1256022	125	Clear	60	1000	B22d
CO2402515	240	Opal	25	1000	B15d
CO2402522	240	Opal	25	1000	B22d
CO2402514	240	Opal	25	1000	E14
CO2404015	240	Opal	40	1000	B15d
CO2404022	240	Opal	40	1000	B22d
CO2404014	240	Opal	40	1000	E14
CO2406015	240	Opal	60	1000	B15d
CO2406022	240	Opal	60	1000	B22d
CO2406014	240	Opal	60	1000	E14
CO2406027	240	Opal	60	1000	E27
CC2402515	240	Clear	25	1000	B15d
CC2402522	240	Clear	25	1000	B22d
CC2402514	240	Clear	25	1000	E14
CC2404015	240	Clear	40	1000	B15d
CC2404022	240	Clear	40	1000	B22d
CC2404012	240	Clear	40	1000	E12
CC2404014	240	Clear	40	1000	E14
CC2406015	240	Clear	60	1000	B15d
CC2406022	240	Clear	60	1000	B22d
CC2406014	240	Clear	60	1000	E14

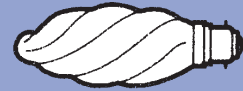
CL24040C15	240	Clear	40	1000	B15d
CL24040C22	240	Clear	40	1000	B22d
CL24040O15	240	Opal	40	1000	B15d
CL24040O22	240	Opal	40	1000	B22d
CL24060C15	240	Clear	60	1000	B15d
CL24060C22	240	Clear	60	1000	B22d
CL24060O15	240	Opal	60	1000	B15d
CL24060O22	240	Opal	60	1000	B22d
CL24060P15	240	Pearl	60	1000	B15d
CL24060P22	240	Pearl	60	1000	B22d

SB24025C14	240	Clear	25	5-8000	E14
SB24025C15	240	Clear	25	5-8000	B15d
SB24025C22	240	Clear	25	5-8000	B22d
SB24040C14	240	Clear	40	5-8000	E14
SB24040C15	240	Clear	40	5-8000	B15d
SB24040C22	240	Clear	40	5-8000	B22d

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	BASE
CT24025C15	240	Clear	25	1000	B15d
CT24025P15	240	Pearl	25	1000	B15d
CT24025C22	240	Clear	25	1000	B22d
CT24025P22	240	Pearl	25	1000	B22d
CT24040C15	240	Clear	40	1000	B15d
CT24040P15	240	Pearl	40	1000	B15d
CT24040C22	240	Clear	40	1000	B22d
CT24040P22	240	Pearl	40	1000	B22d
CT24060C15	240	Clear	60	1000	B15d
CT24060P15	240	Pearl	60	1000	B15d
CT24060C22	240	Clear	60	1000	B22d
CT24060P22	240	Pearl	60	1000	B22d

CANDLE LAMPS - TWISTED 35mm

A range of twisted candles as a decorative alternative to the plain 35mm.



BC

CTL24040C15	240	Clear	40	1000	B15d
CTL24040P15	240	Pearl	40	1000	B15d
CTL24040C22	240	Clear	40	1000	B22d
CTL24040P22	240	Pearl	40	1000	B22d
CTL24060C15	240	Clear	60	1000	B15d
CTL24060P15	240	Pearl	60	1000	B15d
CTL24060C22	240	Clear	60	1000	B22d
CTL24060P22	240	Pearl	60	1000	B22d

CANDLE LAMPS - TWISTED 45mm

A range of twisted 45mm candles for use as a decorative alternative to the plain candles.



BC

CC240FL14	240	Clear	Neon	10000	E14
CC240FL15	240	Clear	Neon	10000	B15d
CC240FL22	240	Clear	Neon	10000	B22d

FLICKER FLAME CANDLE LAMP CLEAR - 35mm

CAP B15d (SBC), B22d (BC), E14 (SES)

A NEON lamp which produces an effect similar to a living flame.



BC

GENERAL SERVICE LIGHTING

POINTED-TIP CANDLE LAMP CLEAR OR PEARL

CAP B15d (SBC)
CAP B22d (BC)
CAP E10 (MES)
CAP E14 (SES)



SES

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	BASE
CPT2407C10	230-240	Clear	7	1000	E10
CPT2407P10	230-240	Pearl	7	1000	E10
CPT24015C10	230-240	Clear	15	1000	E10
CPT24015P10	230-240	Pearl	15	1000	E10
CPT24015C14	240	Clear	15	1000	E14
CPT24015P14	240	Pearl	15	1000	E14
CPT24015C15	240	Clear	15	1000	B15d
CPT24015P15	240	Pearl	15	1000	B15d
CPT24025C10	240	Clear	25	1000	E10
CPT24025P10	240	Pearl	25	1000	E10
CPT24025C14	240	Clear	25	1000	E14
CPT24025P14	240	Pearl	25	1000	E14
CPT24025C15	240	Clear	25	1000	B15d
CPT24025P15	240	Pearl	25	1000	B15d
CPT24025C22	240	Clear	25	1000	B22d
CPT24025P22	240	Pearl	25	1000	B22d
CPT24040C15	240	Clear	40	1000	B15d
CPT24040P15	240	Pearl	40	1000	B15d
CPT24040C22	240	Clear	40	1000	B22d
CPT24040P22	240	Pearl	40	1000	B22d

FLAME-TIP CANDLE LAMP CLEAR OR PEARL

CAP B15d (SBC)
CAP B22d (BC)
CAP E10 (MES)
CAP E14 (SES)

A range of attractive flame tip candles designed for use in luminaries where aesthetic appearance is important.



SES

CFT24015C10	230-240	Clear	15	1000	E10
CFT24015P10	230-240	Pearl	15	1000	E10
CFT24015C14	240	Clear	15	1000	E14
CFT24015P14	240	Pearl	15	1000	E14
CFT24015C15	240	Clear	15	1000	B15d
CFT24015P15	240	Pearl	15	1000	B15d
CFT24025C14	240	Clear	25	1000	E14
CFT24025P14	240	Pearl	25	1000	E14
CFT24025C15	240	Clear	25	1000	B15d
CFT24025P15	240	Pearl	25	1000	B15d
CFT24025C22	240	Clear	25	1000	B22d
CFT24025P22	240	Pearl	25	1000	B22d
CFT24040C14	240	Clear	40	1000	E14
CFT24040P14	230	Pearl	40	1000	E14
CFT24040C15	240	Clear	40	1000	B15d
CFT24040P15	240	Pearl	40	1000	B15d
CFT24040C22	240	Clear	40	1000	B22d
CFT24040P22	240	Pearl	40	1000	B22d
CFT24060C14	240	Clear	60	1000	E14
CFT24060P14	240	Pearl	60	1000	E14
CFT24060C15	240	Clear	60	1000	B15d
CFT24060P15	240	Pearl	60	1000	B15d
CFT24060C22	240	Clear	60	1000	B22d
CFT24060P22	240	Pearl	60	1000	B22d

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	BASE
HCC2304014	230	Clear	40	2000	E14
HCC2306014	230	Clear	60	2000	E14
HCC2304022	230	Clear	40	2000	B22d
HCC2306022	230	Clear	60	2000	B22d

**HALOGEN CANDLE LAMP
CLEAR**
CAP E14 (SES)
CAP B22d (BC)



SES

0700	7	Clear	3	1000	E10
0700R	7	Red	3	1000	E10
0700G	7	Green	3	1000	E10
0700B	7	Blue	3	1000	E10
0700Y	7	Yellow	3	1000	E10
0140	14	Clear	3	1000	E10
0140R	14	Red	3	1000	E10
0140G	14	Green	3	1000	E10
0140B	14	Blue	3	1000	E10
0140Y	14	Yellow	3	1000	E10
0230	23	Clear	3	1000	E10
0230R	23	Red	3	1000	E10
0230G	23	Green	3	1000	E10
0230B	23	Blue	3	1000	E10
0230Y	23	Yellow	3	1000	E10
0340	34	Clear	3	1000	E10
0340R	34	Red	3	1000	E10
0340G	34	Green	3	1000	E10
0340B	34	Blue	3	1000	E10
0340Y	34	Yellow	3	1000	E10

**MINIATURE DECORATIVE
CANDLE LAMP**
13 x 43mm
CAP E10 (MES)



MES

PWC24040P22	240	Frosted	40	1000	B22d
PWC24040S22	240	Salmon	40	1000	B22d
PWC24040A22	240	Amber	40	1000	B22d

PICKWICK CANDLE LAMP

This specialist lamp design is made to look like a real wax candle and is very popular with commercial premises, i.e. Public Houses and Hotels.



BC

MICROWAVE OVEN LAMPS

22 x 57mm
CAP. E17
22 x 64mm*



E17

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	BASE
15E17OVCL	250	Clear	15	1,000	E17
120E1720*	120	Clear	20	1,000	E17
20E17OVCL*	250	Clear	20	1,000	E17

MICROWAVE OVEN LAMPS

35 x 60mm
CAP. E17



E17

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	FIL FORM
120E1725	120	Clear	25	1,000	Multi
25E17OVCL	250	Clear	25	1,000	Multi

The following range of lamps are specially designed to withstand the high temperatures found in ovens.

300°C OVEN LAMPS

22 x 48mm
CAP. E14 (SES)
25 x 66mm*



SES

15SESOVCL	250	Clear	15	1,000	Multi
25SESOVCL*	250	Clear	25	1,000	Multi

300°C OVEN LAMPS

45 x 70mm
CAP. B22d (BC)




BC

SR5366	230	Clear	40	1,000	Multi

This range of lamps are specially designed to withstand the high temperatures found in ovens.

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	FIL FORM
40SESOVCL	250	Clear	40	1,000	Multi


300°C OVEN LAMPS
45 x 70mm
CAP. E14(SES)



SES

SR5367	230	Clear	40	1,000	Multi

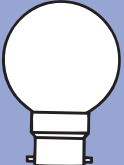
300°C OVEN LAMPS
45 x 70mm
CAP. E27(ES)



ES

SR5219	24	Clear	15	1,000	Multi
SR5220	24	Clear	25	1,000	Multi
SR5221	24	Clear	40	1,000	Multi
SR5222	24	Clear	60	1,000	Multi
SR5269	230/240	Clear	15	1,000	Multi
SR5270	230/240	Clear	25	1,000	Multi
SR5271	230/240	Clear	40	1,000	Multi
SR5272	230/240	Clear	60	1,000	Multi


500°C OVEN LAMPS
45 x 70mm
CAP. B22d(BC)



BC

SR5319	24	Clear	15	1,000	Multi
SR5320	24	Clear	25	1,000	Multi
SR5321	24	Clear	40	1,000	Multi
SR5322	24	Clear	60	1,000	Multi
SR5369	230/240	Clear	15	1,000	Multi
SR5370	230/240	Clear	25	1,000	Multi
SR5371	230/240	Clear	40	1,000	Multi
SR5372	230/240	Clear	60	1,000	Multi

500°C Oven Lamps
45 x 70mm
CAP. E27(ES)



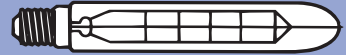
ES

This range of single ended clear incandescent lamps are designed for picture or mirror illumination where the filament runs the length of the envelope

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	FIL FORM
TE20100	230/240	Clear	25	1,000	Special
TE20115	230/240	Clear	25	1,000	Special
TE20125	230/240	Clear	40	1,000	Special
TE20140	230/240	Clear	40	1,000	Special

PICTURE LAMPS TUBULAR

20 x 100mm 20 x 115mm
20 x 125mm 20 x 140mm
CAP. E14 (SES)

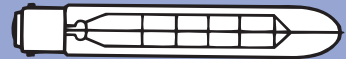


SES

TB20100	230/240	Clear	25	1,000	Special
TB20125	230/240	Clear	40	1,000	Special
TB20140	230/240	Clear	40	1,000	Special

PICTURE LAMPS TUBULAR

20 x 100mm 20 x 125mm
20 x 140mm
CAP. B15d (SBC)



SBC

TB28140	230/240	Clear	40	1,000	Special
TB28160	230/240	Clear	60	1,000	Special
TB28185	230/240	Clear	60	1,000	Special
TB28210	230/240	Clear	60	1,000	Special

PICTURE LAMPS TUBULAR

28 x 140mm 28 x 160mm
28 x 185mm 28 x 210mm
CAP. B22d (BC)



BC

TE28115	240	Clear	25	1,000	Special
TE28140	240	Clear	40	1,000	Special

PICTURE LAMPS TUBULAR

28 x 115mm
28 x 140mm
CAP. E27 (ES)



ES

GENERAL SERVICE LIGHTING

A large range of decorative round lamps available in BC, SBC, ES and SES caps, coloured lamps & low voltage types available. please contact our sales office for details.

45mm DECOR ROUND LAMP

45 x 72mm

CAP. E14 (SES)



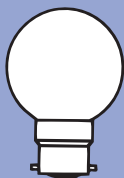
SES

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	FIL FORM
DC7448	230/240	Clear	15	1,000	Multi
SR3070	230/240	Clear	25	1,000	Multi
SR3071	230/240	Clear	40	1,000	Multi
SR3072	230/240	Clear	60	1,000	Multi
SR3369	230/240	Frosted	15	1,000	Multi
SR3370	230/240	Frosted	25	1,000	Multi
SR3371	230/240	Frosted	40	1,000	Multi
SR3372	230/240	Frosted	60	1,000	Multi
DC1555	230/240	Red	15	1,000	Multi
DC1552	230/240	Green	15	1,000	Multi
DC1553	230/240	Blue	15	1,000	Multi
DC1554	230/240	Yellow	15	1,000	Multi

45mm DECOR ROUND LAMP

45 x 72mm

CAP. B22d (BC)



BC

B7448	230/240	Clear	15	1,000	Multi
B7450	230/240	Clear	25	1,000	Multi
B7452	230/240	Clear	40	1,000	Multi
B7454	230/240	Clear	60	1,000	Multi
SR3469	230/240	Frosted	15	1,000	Multi
SR3470	230/240	Frosted	25	1,000	Multi
SR3471	230/240	Frosted	40	1,000	Multi
SR3472	230/240	Frosted	60	1,000	Multi
DC1055	230/240	Red	15	1,000	Multi
DC1052	230/240	Green	15	1,000	Multi
DC1053	230/240	Blue	15	1,000	Multi
DC1054	230/240	Yellow	15	1,000	Multi
ROU25RBC	240/250	Red	25	1,000	Multi
ROU25BBC	240/250	Blue	25	1,000	Multi
ROU25YBC	240/250	Yellow	25	1,000	Multi
ROU25GBC	240/250	Green	25	1,000	Multi
ROU25ABC	240/250	Amber	25	1,000	Multi

45mm DECOR ROUND LAMP

45 x 72mm

CAP. E27 (ES)



ES

SR3269	230/240	Clear	15	1,000	Multi
SR3270	230/240	Clear	25	1,000	Multi
SR3271	230/240	Clear	40	1,000	Multi
SR3272	230/240	Clear	60	1,000	Multi
SR3569	230/240	Frosted	15	1,000	Multi
SR3570	230/240	Frosted	25	1,000	Multi
SR3571	230/240	Frosted	40	1,000	Multi
SR3572	230/240	Frosted	60	1,000	Multi
DC1071	230/240	Red	15	1,000	Multi
DC1073	230/240	Green	15	1,000	Multi
DC1074	230/240	Blue	15	1,000	Multi
DC1072	230/240	Yellow	15	1,000	Multi
ROU25RES	240/250	Red	25	1,000	Multi
ROU25BES	240/250	Blue	25	1,000	Multi
ROU25YES	240/250	Yellow	25	1,000	Multi
ROU25GES	240/250	Green	25	1,000	Multi
ROU25AES	240/250	Amber	25	1,000	Multi

GENERAL SERVICE LIGHTING

A large range of decorative round lamps available in BC, SBC, ES and SES caps, coloured lamps & low voltage types available. please contact our sales office for details.

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	FIL FORM
C5/260/15/B	220-260	Clear	15	1,000	Multi
C5/240/25/B	240	Clear	25	1,000	Multi
C5/240/40/B	240	Clear	40	1,000	Multi
C5/240/60/B	240	Clear	60	1,000	Multi
F5/240/25/B	240	Opal	25	1,000	Multi
F5/240/40/B	240	Opal	40	1,000	Multi
F5/240/60/B	240	Opal	60	1,000	Multi

45mm DECOR ROUND LAMP

45 x 72mm
CAP. B15d (SBC)

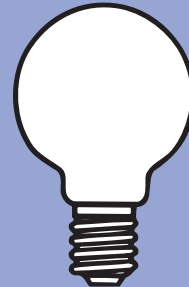


SBC

GL2471	230	Opal	40	1,000	Multi
GL2472	230	Opal	60	1,000	Multi
GL2473	230	Opal	100	1,000	Multi

80mm DECOR ROUND LAMP

80 x 135mm
CAP. E27 (ES)

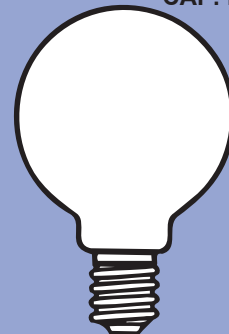


ES

GL24040C27	240	Clear	40	1,000	Multi
GL24040P27	240	Opal	40	1,000	Multi
GL24060P27	240	Opal	60	1,000	Multi
GL240100C27	240	Clear	100	1,000	Multi
GL240100P27	240	Opal	100	1,000	Multi

95mm DECOR ROUND LAMP

A lamp designed for decorative use available in BC or ES cap, can be used with or without shade.
95 x 142mm
CAP. E27 (ES)

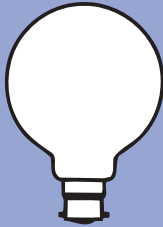


ES

GENERAL SERVICE LIGHTING

A large range of decorative round lamps available in BC, SBC, ES and SES caps, coloured lamps & low voltage types available. please contact our sales office for details.

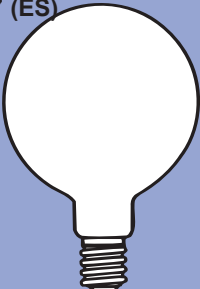
95mm DECOR ROUND LAMP
95 x 142mm
CAP. B22d (BC)



BC

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	FIL FORM
GL24040P22	240	Opal	40	1,000	Multi
GL24060C22	240	Clear	60	1,000	Multi
GL24060P22	240	Opal	60	1,000	Multi
GL240100C22	240	Clear	100	1,000	Multi
GL240100P22	240	Opal	100	1,000	Multi

125mm DECOR ROUND LAMP
125 x 185mm
CAP. E27 (ES)

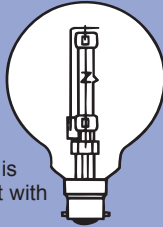


ES

GL2672	230	Opal	60	1,000	Multi
GLOB240100P27	230	Opal	100	1,000	Multi

95mm HALOGEN DECOR ROUND
CAP. B22d (BC)

A range of lamps where a decorative appearance is required, but with high quality halogen light.

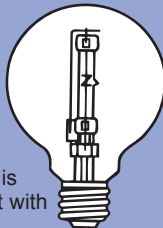


BC

H9524060C22	240	Clear	60	2,000
H9524060W22	240	White	60	2,000
H95240100C22	240	Clear	100	4,000
H95240100W22	240	White	100	4,000
H95240150C22	240	Clear	150	4,000
H95240150W22	240	White	150	4,000

95mm HALOGEN DECOR ROUND
CAP. E27 (ES)

A range of lamps where a decorative appearance is required, but with high quality halogen light.



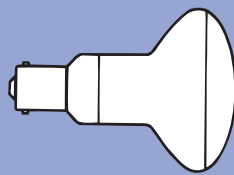
ES

H9524060C27	240	Clear	60	2,000
H9524060W27	240	White	60	2,000
H95240100C27	240	Clear	100	4,000
H95240100W27	240	White	100	4,000
H95240150C27	240	Clear	150	4,000
H95240150W27	240	White	150	4,000

A comprehensive range of spot lamps. The reflector spot lamp is one of the most popular incandescent lamps and is used in many domestic and commercial applications

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	BASE
25R14SCSP12	12	Diffused	25	1,000	BA15s

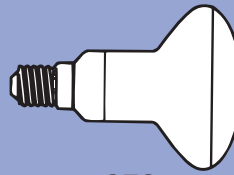
R14 REFLECTOR LAMP
DIFFUSED
CAP. BA15s (SCC)



SCC

30R39DSES	230/240	Diffused	30	1,000	E14

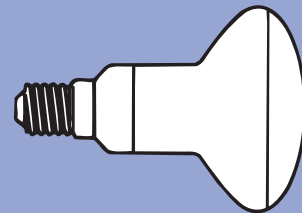
39mm REFLECTOR LAMP
DIFFUSED
CAP. E14 (SES)



SES

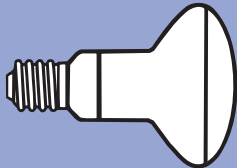
ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	FIL FORM
25R50DSES	240	Diffused	25	1,000	Multi
40R50DSES	240	Diffused	40	1,000	Multi
40R50NSES	240	Neodymium	40	1,000	Multi
25R50RSES	240	Red	25	1,000	Multi
25R50BSES	240	Blue	25	1,000	Multi
25R50YSES	240	Yellow	25	1,000	Multi
25R50GSES	240	Green	25	1,000	Multi
25R50ASES	240	Amber	25	1,000	Multi
40R50RSES	240	Red	40	1,000	Multi
40R50BSES	240	Blue	40	1,000	Multi
40R50YSES	240	Yellow	40	1,000	Multi
40R50GSES	240	Green	40	1,000	Multi
40R50ASES	240	Amber	40	1,000	Multi

50mm REFLECTOR LAMP
DIFFUSED
COLOURED, NEODYMIUM
CAP. E14 (SES)



SES

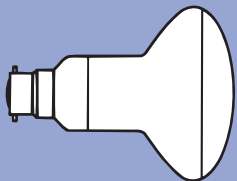
**64mm REFLECTOR LAMP
CLEAR, DIFFUSED,
COLOURED, NEODYMIUM
CAP. E27 (ES)**



ES

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	FIL FORM
25R64DES	240	Diffused	25	1,000	Multi
40R64DES	240	Diffused	40	1,000	Multi
40R64CES	240	Clear	40	1,000	Multi
40R64RES	240	Red	40	1,000	Multi
40R64BES	240	Blue	40	1,000	Multi
40R64YES	240	Yellow	40	1,000	Multi
40R64GES	240	Green	40	1,000	Multi
40R64AES	240	Amber	40	1,000	Multi
40R64NES	240	Neodymium	40	1,000	Multi
60R64DES	240	Diffused	60	1,000	Multi
60R64CES	240	Clear	60	1,000	Multi
60R64NES	240	Neodymium	60	1,000	Multi

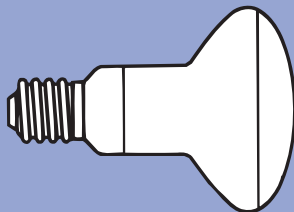
**64mm REFLECTOR LAMP
CLEAR, DIFFUSED,
COLOURED,
CAP. B22d (BC)**



BC

25R64DBC	240	Diffused	25	1,000	Multi
40R64DBC	240	Diffused	40	1,000	Multi
40R64RBC	240	Red	40	1,000	Multi
40R64BBC	240	Blue	40	1,000	Multi
40R64YBC	240	Yellow	40	1,000	Multi
40R64GBC	240	Green	40	1,000	Multi
40R64ABC	240	Amber	40	1,000	Multi
60R64DBC	240	Diffused	60	1,000	Multi
60R64CBC	240	Clear	60	1,000	Multi

**80mm REFLECTOR LAMP
CLEAR, DIFFUSED,
COLOURED, NEODYMIUM
+SPECIAL
CAP. E27 (ES)**



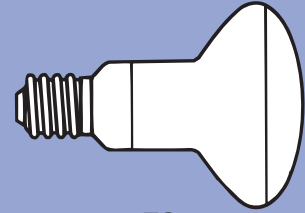
ES

40R80DES	240	Diffused	40	1,000	Multi
40R80CES	240	Clear	40	1,000	Multi
40R80RES	240	Red	40	1,000	Multi
40R80BES	240	Blue	40	1,000	Multi
40R80YES	240	Yellow	40	1,000	Multi
40R80GES	240	Green	40	1,000	Multi
40R80AES	240	Amber	40	1,000	Multi
60R80DES	240	Diffused	60	1,000	Multi
60R80CES	240	Clear	60	1,000	Multi
60R80RES	240	Red	60	1,000	Multi
60R80BES	240	Blue	60	1,000	Multi
60R80YES	240	Yellow	60	1,000	Multi
60R80GES	240	Green	60	1,000	Multi
60R80AES	240	Amber	60	1,000	Multi
60R80NES	240	Neodymium	60	1,000	Multi
75R80DES	240	Diffused	75	1,000	Multi
NL75E80	240	Natural Light	75	1,000	Multi
SF75E80	240	Flora Light	75	1,000	Multi

Continued on next page

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	FIL FORM
100R80DES	240	Diffused	100	1,000	Multi
100R80CES	240	Clear	100	1,000	Multi
100R80RES	240	Red	100	1,000	Multi
100R80BES	240	Blue	100	1,000	Multi
100R80YES	240	Yellow	100	1,000	Multi
100R80GES	240	Green	100	1,000	Multi
100R80NES	240	Neodymium	100	1,000	Multi
NL100E80	240	Natural Light	100	1,000	Multi
SF100E80	240	Flora Light	100	1,000	Multi

80mm REFLECTOR LAMP
CLEAR, DIFFUSED,
COLOURED, NEODYMIUM +
SPECIAL
CAP. E27 (ES)

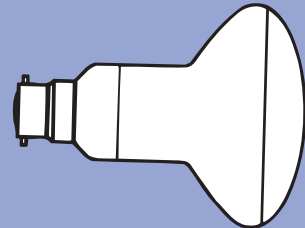


ES

Continued from previous page

40R80DBC	240	Diffused	40	1,000	Multi
40R80CBC	240	Clear	40	1,000	Multi
60R80DBC	240	Diffused	60	1,000	Multi
60R80CBC	240	Clear	60	1,000	Multi
60R80RBC	240	Red	60	1,000	Multi
60R80BBC	240	Blue	60	1,000	Multi
60R80YBC	240	Yellow	60	1,000	Multi
60R80GBC	240	Green	60	1,000	Multi
60R80ABC	240	Amber	60	1,000	Multi
75R80DBC	240	Diffused	75	1,000	Multi
NL75B80	240	Natural Light	75	1,000	Multi
SF75B80	240	Flora Light	75	1,000	Multi
100R80DBC	240	Diffused	100	1,000	Multi
100R80CBC	240	Clear	100	1,000	Multi
NL100B80	240	Natural Light	100	1,000	Multi
SF100B80	240	Flora light	100	1,000	Multi

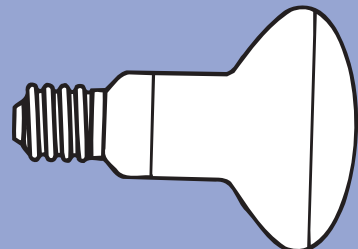
80mm REFLECTOR LAMP
CLEAR, DIFFUSED,
COLOURED,
+ SPECIAL
CAP. B22d (BC)



BC

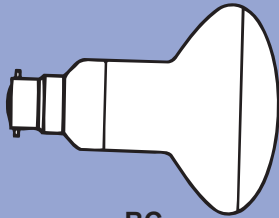
75R95DES	240	Diffused	75	1,000	Multi
75R95CES	240	Clear	75	1,000	Multi
75R95RES	240	Red	75	1,000	Multi
75R95BES	240	Blue	75	1,000	Multi
75R95YES	240	Yellow	75	1,000	Multi
75R95GES	240	Green	75	1,000	Multi
75R95AES	240	Amber	75	1,000	Multi
Gro-Lux spot	240	Gro-Lux	75	1,000	Multi
100R95DES	240	Diffused	100	1,000	Multi
100R95CES	240	Clear	100	1,000	Multi
100R95RES	240	Red	100	1,000	Multi
100R95BES	240	Blue	100	1,000	Multi
100R95YES	240	Yellow	100	1,000	Multi
100R95GES	240	Green	100	1,000	Multi
100R95AES	240	Amber	100	1,000	Multi
100R95NES	240	Neodymium	100	1,000	Multi
NL100E95	240	Natural light	100	1,000	Multi
SF100E95	240	Flora light	100	1,000	Multi
150R95DES	240	Diffused	150	1,000	Multi
NL150E95	240	Natural light	150	1,000	Multi
SF150E95	240	Flora light	150	1,000	Multi

95mm REFLECTOR LAMP
CLEAR, DIFFUSED,
COLOURED, NEODYMIUM +
SPECIAL
CAP. E27 (ES)



ES

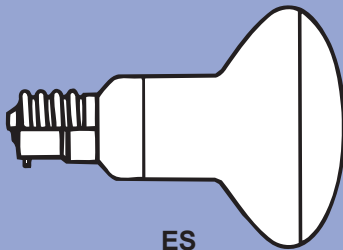
95mm REFLECTOR LAMP
CLEAR, DIFFUSED,
COLOURED,
CAP. B22d (BC)



BC

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	FIL FORM
75R95DBC	240	Diffused	75	1,000	Multi
100R95DBC	240	Diffused	100	1,000	Multi
100R95CBC	240	Clear	100	1,000	Multi
100R95RBC	240	Red	100	1,000	Multi
100R95BBC	240	Blue	100	1,000	Multi
100R95YBC	240	Yellow	100	1,000	Multi
100R95GBC	240	Green	100	1,000	Multi
100R95ABC	240	Amber	100	1,000	Multi
150R95DBC	240	Diffused	150	1,000	Multi

125mm REFLECTOR LAMP
CAP. E27 (ES)
B22d (BC)



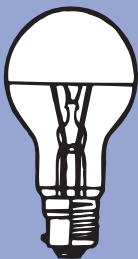
ES

150R125DES	240	Diffused	150	1,000	E27
150R125DBC	240	Diffused	150	1,000	B22d

CROWN SILVERED GLS LAMP

This mirror topped GLS lamp is popular to retail and other commercial premises. It offers economical directional lighting.

CAP. E27 (ES)
B22d (BC)
E14 (SES)



ES

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	BASE
CS2406022	240		60	1,000	B22d
CS2406027	240		60	1,000	E27
CS24010022	240		100	1,000	B22d
CS24010027	240		100	1,000	E27
CS2401003P	240	3 Pin	100	1,000	B22d-3
CS2404014	240	POINTED	40	1,000	E14

This range of lamps is designed for interior lighting with concealed caps.

**ARCHITECTURAL LAMPS
CAP. S12/18 (PEG END)**



ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	DIA x LENGTH
ARC24035PRP	240-250	Pearl	35	1,000	30x300
ARC24053PRP	240-250	Pearl	53	1,000	30x400
ARC24060PRP	240-250	Pearl	60	1,000	30x500
ARC24075PRP	240-250	Pearl	75	1,000	30x600
ARC240110PRP	240-250	Pearl	110	1,000	30x900

**ARCHITECTURAL LAMPS
FROSTED
CAP. S14S x 2**



ARC24035F14S	230	Frosted	35	1,000	25x300
ARC24060F14S	230	Frosted	60	1,000	25x500
ARC240120F14S	230	Frosted	120	1,000	25x750
ARC240120F14S1	230	Frosted	120	1,000	25x1000

**ARCHITECTURAL LAMPS
OPAL
CAP. S14S x 2**



ARC24035014S	230	Opal	35	1,000	25x300
ARC23060014S	230	Opal	60	1,000	25x300
ARC2306014S1	230	Opal	60	1,000	25x500
ARC23010014S	230	Opal	100	1,000	25x500
ARC23012014S	230	Opal	120	1,000	25x1000

**ARCHITECTURAL LAMPS
OPAL
CAP. S14d (Central base)**

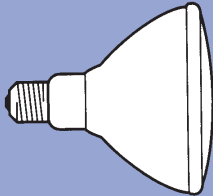


ARC2403514D	235-240	Opal	35	1,000	30x300
ARC2406014D	235-240	Opal	60	1,000	30x500

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	BASE
150PAR38SP24	24	Clear Spot	120/150	1,000	E27
150PAR38FL24	24	Clear Flood	120/150	1,000	E27
120PAR38SP120	120	Clear Spot	120	2,000	E27
120PAR38FL120	120	Clear Flood	120	2,000	E27
60PAR38SP240	240	Clear Spot	60	2,000	E27
60PAR38FL240	240	Clear Flood	60	2,000	E27
80PAR38FL240	240	Clear Flood	80	2,000	E27
80PAR38SP240	240	Clear Spot	80	2,000	E27
80PAR38FL240B	240	Blue Flood	80	2,000	E27
80PAR38FL240G	240	Green Flood	80	2,000	E27
80PAR38FL240R	240	Red Flood	80	2,000	E27
80PAR38FL240Y	240	Yellow Flood	80	2,000	E27
100PAR38FL240	240	Clear Flood	100	2,000	E27
120PAR38SP240	240	Clear Spot	120	2,000	E27
120PAR38FL240	240	Clear Flood	120	2,000	E27
150PAR38SP240	240	Clear Spot	150	2,000	E27
150PAR38FL240	240	Clear Flood	150	2,000	E27
SSPAR388027	240	Super Service C/F	80	10,000	E27
SSPAR3812027	240	Super Service C/F	120	10,000	E27

SEALED BEAM LAMPS PAR38 REFLECTOR

A range of pressed glass reflector lamps with ES cap. Available in both spot and flood beam. These lamps are available in clear or colours and are popular for spotlighting with internal or external luminaries.



ES

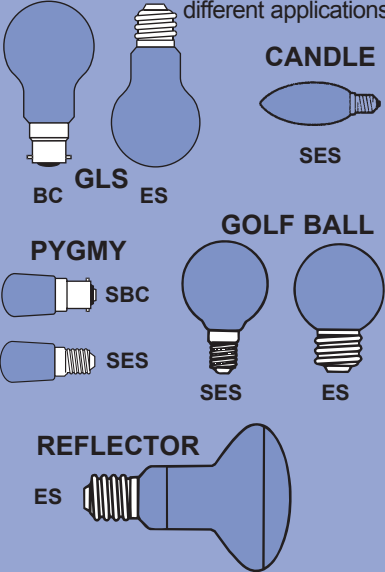
Daylight Simulation

ORDER CODE	VOLTS	STYLE	WATTS	AVERAGE LIFE HOURS	BASE
0055	240	GLS	40	1,000	B22d
0056	240	GLS	40	1,000	E27
0052	240	GLS	60	1,000	E27
0051	240	GLS	60	1,000	B22d
0053	240	GLS	100	1,000	E27
0054	240	GLS	100	1,000	B22d
0057	240	GLS	150	1,000	B22d
0058	240	Candle	40	1,000	E14
0059	240	Candle	60	1,000	E14
0060	240	Pygmy	15	1,000	B15d
0061	240	Pygmy	15	1,000	E14
0062	240	Golfball	40	1,000	E14
0063	240	Golfball	40	1,000	E27
0064	240	Reflector R64	60	1,000	E27
0065	240	Reflector R80	100	1,000	E27

NB. Other types are available by request.

CRAFT LIGHTS (Daylight simulation)

Craftlight lamps have a transparent blue filter paint applied to the glass, which absorbs the yellow part of the light spectrum to provide simulated daylight. Available in six lamp glass styles to suit different applications.



BC GLS ES CANDLE SES PYGMY SBC GOLF BALL REFLECTOR

JD LAMPS
SINGLE ENDED TUNGSTEN
HALOGEN WITHOUT OUTER
BULB TUBULAR
FINISH: CLEAR
CAP E10(MES)
E11
E14 (SES)
E27 (ES)

A range of specialist tungsten halogen lamps, mainly used in projector style floodlights.



SES

ORDER CODE	VOLTS	FINISH	WATTS	AVERAGE LIFE HOURS	BASE
J28/75E10	28	Clear	75	2,000	E10
J120/100E11	120	Clear	100	1,500	E11
J120/100E14	120	Clear	100	1,500	E14
J120/100E27	120	Clear	100	1,500	E27
J120/150E11	120	Clear	150	1,500	E11
J120/150E14	120	Clear	150	2,000	E14
J120/150E27	120	Clear	150	2,000	E27
J120/250E11	120	Clear	250	2,000	E11
J120/250E14	120	Clear	250	2,000	E14
J120/250E27	120	Clear	250	2,000	E27
J120/500E11	120	Clear	500	2,000	E11
J120/500E14	120	Clear	500	2,000	E14
J120/500E27	120	Clear	500	2,000	E27
J240/100E11	240	Clear	100	2,000	E11
J240/100E14	240	Clear	100	2,000	E14
J240/100E27	240	Clear	100	2,000	E27
J240/150E11	240	Clear	150	2,000	E11
J240/150E14	240	Clear	150	2,000	E14
J240/150E27	240	Clear	150	2,000	E27
J240/250E11	240	Clear	250	2,000	E11
J240/250E14	240	Clear	250	2,000	E14
J240/250E27	240	Clear	250	2,000	E27
J240/500E11	240	Clear	500	2,000	E11
J240/500E14	240	Clear	500	2,000	E14
J240/500E27	240	Clear	500	2,000	E27

SINGLE ENDED TUNGSTEN
HALOGEN WITHOUT OUTER BULB
TUBULAR
FINISH: PEARL
CAP B15d (SBC)



SBC

ORDER CODE	VOLTS	DIA x LENGTH	WATTS	AVERAGE LIFE HOURS	BASE
64471P	230	20x95	40	1,500	B15d
64472P	230	18x86	60	1,500	B15d
64473P/M77F	240	18x86	75	1,000	B15d
64475P/M78F	240	18x86	100	1,500	B15d
64477P/M79F	240	18x98	150	2,000	B15d
64479P/M174F	240	18x98	250	2,000	B15d

SINGLE ENDED TUNGSTEN
HALOGEN WITHOUT OUTER BULB
TUBULAR
FINISH: CLEAR
CAP B15d (SBC)



SBC

64471CL	230	20x95	40	1,500	B15d
64472CL	230	18x86	60	1,500	B15d
64473CL	240	18x86	75	1,000	B15d
64475CL	240	18x86	100	1,500	B15d
64477CL	240	18x98	150	2,000	B15d
64479CL	240	18x98	250	2,000	B15d

A range of lamps which are a direct replacement for domestic GLS lamps, but last twice as long and give a crisp halogen quality light without the cost and inconvenience of special transformers. Available in both standard BC or ES cap.

ORDER CODE	VOLTS	DIA x LENGTH	WATTS	AVERAGE LIFE HOURS	BASE
64861P	230	20x95	40	2,000	E14
64862P	230	20x95	60	2,000	E14
64860P	230	20x95	100	2,000	E14
64861CL*	230	26x80	40	2,000	E14
64862CL*	230	26x80	60	2,000	E14
64860CL*	230	20x95	100	2,000	E14

SINGLE ENDED TUNGSTEN LAMP

"HALOGEN" WITH OUTER BULB TUBULAR
FINISH: PEARL
CAP. E14 (SES)



SES

FINISH: CLEAR*
CAP. E14 (SES)

64474P	230-240	32x105	75	1,500	E27
64476P	230-240	32x105	100	1,500	E27
63469P	120	32x105	150	2,000	E27
64478P	230-240	32x105	150	2,500	E27
66679P	230-240	32x105	200	2,000	E27
64459P	120	32x105	250	2,000	E27
64480P	230-240	32x105	250	2,000	E27
66678CL*	230	32x105	60	1,500	E27
64474CL*	230-240	32x105	75	1,500	E27
64476CL*	230-240	32x105	100	1,500	E27
63469CL*	120	32x105	150	2,000	E27
64478CL*	230-240	32x105	150	2,000	E27
66679CL*	230-240	32x105	200	2,000	E27
64459CL*	120	32x105	250	2,000	E27
64480CL*	230-240	32x105	250	2,000	E27

SINGLE ENDED TUNGSTEN LAMP

"HALOGEN" WITH OUTER BULB TUBULAR
FINISH: PEARL
CAP. E27 (ES)



ES

FINISH: CLEAR*
CAP. E27 (ES)

764476P	230	32x110	100	2,000	E27
764478P	230	32x110	150	2,000	E27
764480P	230	32x110	250	2,000	E27
764481CL*	120	32x110	100	2,000	E27
764476CL*	230	32x110	100	2,000	E27
764482CL*	120	32x110	150	2,000	E27
764478CL*	230	32x110	150	2,000	E27
764483CL*	120	32x110	250	2,000	E27
764480CL*	230	32x110	250	2,000	E27

SINGLE ENDED TUNGSTEN LAMP

"HALOGEN" WITH OUTER BULB (FITTED LINEAR HALOGEN) TUBULAR
FINISH: PEARL
CAP. E27 (ES)



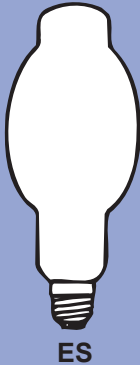
ES

FINISH: CLEAR*
CAP. E27 (ES)



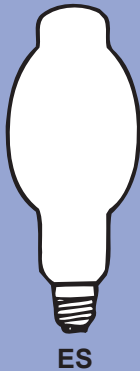
A range of lamps which are a direct replacement for domestic GLS lamps, but last twice as long and give a crisp halogen quality light without the cost and inconvenience of special transformers. Available in both standard BC or ES caps.

**SINGLE ENDED TUNGSTEN LAMP
"HALOGEN" WITH OUTER BULB
OVOID SHAPE
FINISH: CLEAR
CAP. E14 (SES)
E27 (ES)
B22d (BC)**



ORDER CODE	VOLTS	DIA x LENGTH	WATTS	AVERAGE LIFE HOURS	BASE
BTT60SECL	230	40x100	60	2,000	E14
BTT60ESCL	230-240	47x115	60	2,000	E27
BTT60BCCL	230-240	47x115	60	2,000	B22d
BTT75ESCL	230-240	47x115	75	2,000	E27
BTT100ESCL	230-240	47x115	100	2,000	E27
BTT100BCCL	230-240	47x115	100	2,000	B22d
BTT150ESCL	230	47x115	150	2,000	E27
BTT150BCCL	230-240	47x115	150	2,000	B22d

**SINGLE ENDED TUNGSTEN LAMP
"HALOGEN" WITH OUTER BULB
OVOID SHAPE
FINISH: PEARL
CAP. E27 (ES)
B22d (BC)**



BTT60ESP	230	47x115	60	2,000	E27
BTT60BCP	240	47x115	60	2,000	B22d
BTT75ESP	240	47x115	75	2,000	E27
BTT100ESP	230	45x115	100	2,000	E27
BTT100BCP	240	45x115	100	2,000	B22d
BTT150ESP	230	45x115	150	2,000	E27
BTT150BCP	240	45x115	150	2,000	B22d

**SINGLE ENDED TUNGSTEN LAMP
"HALOGEN" WITH OUTER BULB
OVOID SHAPE
FINISH: OPAL
CAP. E27 (ES)**



BTT60ESOP	230	47x115	60	2,000	E27
BTT75ESOP	240	47x115	75	2,000	E27
BTT100ESOP	230	47x115	100	2,000	E27
BTT150ESOP	230	47x115	150	2,000	E27

This range of high performance, long life universal burning lamps have a reinforced construction and triple supported filament and is used for outdoor lighting. Ratings are from 60W to 2 Kilowatt.

ORDER CODE	VOLTS	DIA x LENGTH	WATTS	AVERAGE LIFE HOURS	BASE
K11/28V	24-28	11x118	200	2,000	R7s
K24300	24	11x118	300	2,000	R7s
K24500	24	11x118	500	2,000	R7s
K42150	42	11x118	150	2,000	R7s
K42200	42	11x118	200	2,000	R7s
K42300	42	11x118	300	2,000	R7s
K41500	42	11x118	500	2,000	R7s
K648075	120-130	11x78	75	2,000	R7s
K14/120V	120-130	11x78	100	2,000	R7s
K12/120V	120-130	11x78	150	2,000	R7s
K61121	120	11x78	200	2,000	R7s
K15/120V	120	11x78	250	2,000	R7s
K641875	120-130	11x118	75	2,000	R7s
K62103	120	11x118	100	2,000	R7s
K28/120V	120	11x118	150	2,000	R7s
K11/120V	120	11x118	200	2,000	R7s
K32/120V	120	11x118	250	2,000	R7s
K9/120V	120	11x118	300	2,000	R7s
K1/120V	120	11x118	500	2,000	R7s
K3/120V	120	11x189	750	2,000	R7s
K4/120V	120	11x189	1000	2,000	R7s
K5/120V	120	11x254	1500	2,000	R7s
K6/120V	120	11x324	2000	2,000	Fa4
K64599	230-240	11x78	60	2,000	R7s
K75/240	230-240	11x78	75	2,000	R7s
K14/240V	230-240	11x78	100	2,000	R7s
K12/240V	230-240	11x78	150	2,000	R7s
K61120	230-240	11x78	200	2,000	R7s
K15/240V	230-240	11x78	250	2,000	R7s
K62105	230-240	11x118	100	2,000	R7s
K28/240	230-240	11x118	150	2,000	R7s
K11/240V	230-240	11x118	200	2,000	R7s
K32/240V	230-240	11x118	250	2,000	R7s
K9/240V	230-240	11x118	300	2,000	R7s
K61110	230-240	11x118	400	2,000	R7s
K1/240V	230-240	11x118	500	2,000	R7s
K3/240V	230-240	11x189	750	2,000	R7s
K4/240V	230-240	11x189	1000	2,000	R7s
K10/240V	230-240	11x254	1000	2,000	R7s
K5/240V	230-240	11x254	1500	2,000	R7s
K8	230-240	11x331	2000	2,000	R7s
K6/240V	230-240	11x324	2000	2,000	Fa4

LINEAR TUNGSTEN HALOGEN "K CLASS" CAP R7s and Fa4



R7s

This range of high performance, long life universal burning lamps have a reinforced construction and triple supported filament and is used for outdoor lighting. Ratings are from 60W to 2 Kilowatt.

**LINEAR TUNGSTEN HALOGEN
"K CLASS" FROSTED
CAP R7s**



ORDER CODE	VOLTS	DIA x LENGTH	WATTS	AVERAGE LIFE HOURS	BASE
K9/240VF	230-240	11x118	300	2,000	R7s
K1/240VF	230-240	11x118	500	2,000	R7s

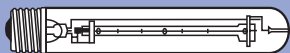
**LINEAR TUNGSTEN HALOGEN
"K CLASS" COLOURED GLASS
CAP R7s**



K61109 Gold	230	11x118	300	2,000	R7s
K61109 Pink	230	11x118	300	2,000	R7s
K64702 Gold	230	11x118	500	2,000	R7s

Double envelope, single ended halogen lamps, giving advantages of universal burning position and high light output. Ideal for lighting of quays, ports and public gardens.

IDE CLASS HALOGEN LAMP



IDE/8300	110	38x220	300	2,000	E40
IDE/8001	240	38x220	300	2,000	E40
IDE/8003	240	38x220	500	2,000	E27
IDE/8002	125	38x220	500	2,000	E40
IDE/8004	240	38x220	500	2,000	E40
IDE/8005	240	38x260	1000	2,000	E40
IDE/8006	240	38x300	2000	2,000	E40

Highly efficient, energy saving, long life aluminium reflector lamps, ideal for display applications which require high lumen intensity and good colour rendering. The lamps are fitted with a grip cover that helps reduce glare and makes for easy lamp insertion and removal.

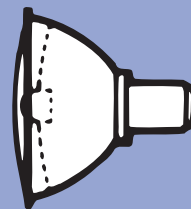
ORDER CODE	VOLTS	BEAM ANGLE	WATTS	AVERAGE LIFE HOURS	LIGHT O/P CD
41960SP	6	10°SILVER	10	2,000	2000
41910SP	12	10°SILVER	10	2,000	2000
41910FL	12	15°SILVER	10	2,000	600
41900SP	12	10°SILVER	20	2,000	5000
41900FL	12	15°SILVER	20	2,000	2200
41920SP	12	10°SILVER	35	2,000	7000
41920FL	12	15°SILVER	35	2,000	3500
41930SP	24	10°SILVER	20	2,000	4500
41905SP	12	10°GOLD	20	2,000	4500
41905FL	12	15°GOLD	20	2,000	1500

TUNGSTEN HALOGEN METAL REFLECTOR LAMP
HALO STAR AR
 48 x 31mm (MINI SPOT)
 BASE G4
 COLOUR TEMP. 2600°K



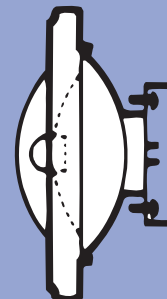
41970SP	12	10°SILVER	20	2,000	7000
41970FL	12	30°SILVER	20	2,000	1000
41990SP	12	10°SILVER	50	2,000	15000
41990FL	12	30°SILVER	50	2,000	2000
41980SP	12	10°SILVER	75	2,000	19000
41980FL	12	30°SILVER	75	2,000	4000
41995SP*	12	10°GOLD	50	2,000	13500
41995FL*	12	30°GOLD	50	2,000	1800

HALO STAR AR LAMP
 70 x 50mm (MAXI SPOT)
 BASE BA15d
 COLOUR TEMP. 3000°K
 *2600°K



41830SSP	6	3°SILVER	35	2,000	45000
41832SSP	12	3°SILVER	35	2,000	45000
41832SP	12	10°SILVER	35	2,000	15000
41832FL	12	30°SILVER	35	2,000	2000
41835NSP	12	5°SILVER	50	2,000	50000
41835SP	12	10°SILVER	50	2,000	20000
41835FL	12	30°SILVER	50	2,000	3000
41840SP	12	10°SILVER	75	2,000	25000
41840FL	12	30°SILVER	75	2,000	4500
41840WFL	12	60°SILVER	75	2,000	1300
41850SP	12	10°SILVER	100	2,000	45000
41850FL	12	30°SILVER	100	2,000	7000
41850WFL	12	60°SILVER	100	2,000	2000

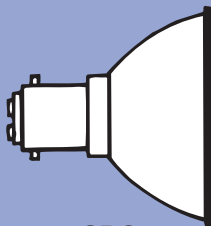
HALO STAR AR111 LAMP
 111 x 60mm (SUPER SPOT)
 BASE G53
 COLOUR TEMP. 3000°K



POWERBEAM 58mm REFLECTOR LAMP WITH GLASS COVER

**BASE B15d (SBC)
COLOUR TEMP. 3100°K**

Sparkling, multi-faceted aluminium reflectors with toughened front glass for protection from handling and contamination.



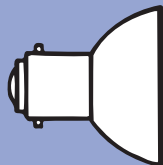
SBC

ORDER CODE	VOLTS	BEAM ANGLE	WATTS	AVERAGE LIFE HOURS	LIGHT O/P CD
M83	12	8°	50	2,000	15000
M83R	12	8°RED	50		
M83A	12	8°AMBER	50		
M83B	12	8°BLUE	50		
M83P	12	8°PINK	50		
M83G	12	8°GREEN	50		
M84	12	16°	50	2,000	5000
M84R	12	16°RED	50		
M84A	12	16°AMBER	50		
M84B	12	16°BLUE	50		
M84P	12	16°PINK	50		
M84G	12	16°GREEN	50		
M85	12	32°	50	2,000	1300
M85R	12	32°RED	50		
M85A	12	32°AMBER	50		
M85B	12	32°BLUE	50		
M85P	12	32°PINK	50		
M85G	12	32°GREEN	50		

Below is a range of aluminium reflector lamps with a low-voltage halogen capsule in a lightweight, high gloss anodised reflector, fitted with an integral front glass. Aluminium reflector lamps produce no light or heat at the back, making these lamps ideal for display and accent lighting

ALUMINIUM REFLECTOR LAMP 37 x 35mm WITH GLASS COVER

BASE B15d (SBC)

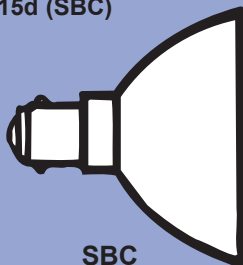


SBC

6424	6	6°	15	2,000	5000
6433	12	6°	20	2,000	7000
6434	12	18°	20	2,000	1400
6435	12	32°	20	2,000	350

ALUMINIUM REFLECTOR LAMP 56 x 56mm WITH GLASS COVER

BASE B15d (SBC)



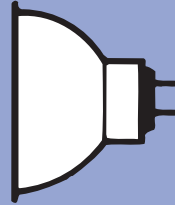
SBC

6425	6	4°	15	2,000	12000
6426	6	14°	15	2,000	14000
6429	6	6°	35	2,000	15500
6430	6	14°	35	2,000	4000
6438	12	10°	50	2,000	11000
6439	12	25°	50	2,000	1900

A range of lamps available in 20, 35 and 50 watt versions, which operate on 12 volts via a transformer.

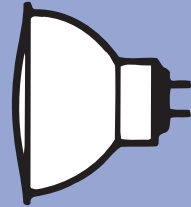
ORDER CODE	VOLTS	BEAM ANGLE	WATTS	AVERAGE LIFE HOURS	LIGHT O/P CD
FTA	12	7°	12	1,000	6400
FTB	12	10°	20	2,000	5500
FTC	12	17°	20	2,000	1760
H68053	12	20°	20	2,000	1850
FTD	12	30°	20	2,000	600
FTE	12	7°	35	2,000	9000
FTF	12	20°	35	2,000	3000
FTH	12	30°	35	2,000	1300
M/171	12	10°	50	1,000	11000
M/172	12	20-24°	50	1,000	2600
M/173	12	30-38°	50	1,000	1200
MR1165G4	6		5	2,000	
MR11610G4	6		10	2,000	
MR11125G4	12		5	2,000	
MR111210G4	12		10	2,000	
MR111215G4	12		15	2,000	

**DICHROIC REFLECTOR LAMP
GENERAL PURPOSE DISPLAY
35mm (MR11) WITHOUT GLASS
COVER
BASE GU4**



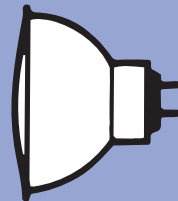
FTA/CG	12	7°	12	2,000	5760
FTB/CG	12	10°	20	2,000	4950
FTC/CG	12	17°	20	2,000	1584
FTD/CG	12	30°	20	2,000	540
FTE/CG	12	7°	35	2,000	8100
FTF/CG	12	20°	35	2,000	2700
FTH/CG	12	30°	35	2,000	1240
H68082F	24	30°	20	2,000	500
H68083F	24	30°	35	2,000	1200

**DICHROIC REFLECTOR LAMP
GENERAL PURPOSE DISPLAY
35mm (MR11) WITH GLASS COVER
BASE GU4**



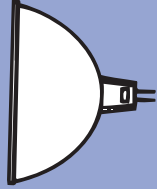
M252B	12	Blue	20	2,000	
M252G	12	Green	20	2,000	
M252R	12	Red	20	2,000	
M252Y	12	Yellow	20	2,000	

**DICHROIC REFLECTOR LAMP
GENERAL PURPOSE DISPLAY
35mm (MR11) WITH COLOURED
GLASS COVER
BASE GU4**



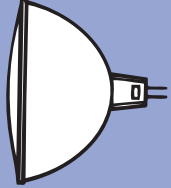
ORDER CODE	VOLTS	BEAM ANGLE	WATTS	AVERAGE LIFE HOURS	LIGHT O/P CD
M52U	12	10°	20	2,000	5500
M320U	12	24°	20	2,000	1750
M321U	12	30°	20	2,000	700
M65U	12	10°	35	3,000	8500
M322U	12	24°	35	3,000	3000
M323U	12	38°	35	3,000	1500
M471U	12	10°	50	3,000	11000
M472U M/172	12	24°	50	3,000	4400
M473U	12	38°	50	3,000	2600

DICHROIC REFLECTOR UV STOP DISPLAY LAMP
 35mm (MR11)
 WITHOUT GLASS COVER
 BASE GU4



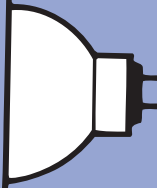
M252U	12	10°	20	2,000	5500
M220U	12	24°	20	2,000	1750
M221U	12	38°	20	2,000	500
M265U	12	10°	35	3,000	8500
M222U	12	24°	35	3,000	3000
M223U	12	38°	35	3,000	1500

DICHROIC REFLECTOR UV STOP DISPLAY LAMP
 35mm (MR11) WITH GLASS COVER
 BASE GU4



EZX	12	7°	20	2,000	8200
ESX	12	12°	20	2,000	3300
BBF	12	24°	20	2,000	870
BAB	12	36°	20	2,000	510
64201	12	60°	20	2,000	300
FRB	12	10°	35	2,000	5800
FMT	12	12°	35	2,000	5000
FRA	12	20°	35	2,000	3800
FMV	12	24°	35	2,000	1800
FMW	12	38°	35	2,000	1100
63233	12	60°	35	2,000	
EZY	12	8°	42	2,000	13100
EYS	12	27°	42	2,000	2100
EXT	12	13°	50	2,000	10200
EXZ	12	24°	50	2,000	2900
ENL	12	30°	50	2,000	2325
EXN	12	38°	50	2,000	1725
FNV	12	60°	50	2,000	1075
EYF	12	14°	65-75	2,000	12300
EYJ	12	20°	65-75	2,000	4600
EYC	12	38°	65-75	2,000	2100
M98	12	68°	65-75	2,000	
63226	24	38°	20	2,000	
63227	24	38°	35	2,000	
63228	24	38°	50	2,000	

DICHROIC REFLECTOR LAMP (COOL SPOT)
 GENERAL PURPOSE DISPLAY
 50mm (MR16)
 WITHOUT GLASS COVER
 BASE GU5.3

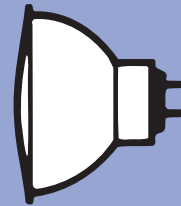


ORDER CODE	VOLTS	BEAM ANGLE	WATTS	AVERAGE LIFE HOURS	LIGHT O/P CD
M268	12	12°	20	4,000	3600
M294	12	24°	20	4,000	870
M269	12	36°	20	4,000	510
M190	12	60°	20	4,000	300
M271	12	10°	35	4,000	5800
M270	12	24°	35	4,000	2300
M281	12	38°	35	4,000	1100
M249	12	10°	50	4,000	10200
M250	12	24°	50	4,000	2900
M109	12	30°	50	4,000	2325
M258	12	38°	50	4,000	1725
M280	12	60°	50	4,000	1075
M260	12	10°	65-75	4,000	12300
M282	12	24°	65-75	4,000	5700
M261	12	38°	65-75	4,000	2250
M298	12	X-Wide	65-75	4,000	1220

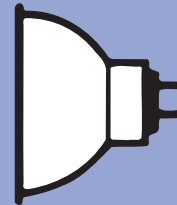
M68U	12	10°	20	2,000	4100
M69U	12	38°	20	2,000	850
M190U	12	60°	20	2,000	300
M71U	12	10°	35	2,000	5800
M70U	12	24°	35	2,000	3500
M81U	12	38°	35	2,000	1550
M324U	12	60°	35	2,000	510
M49U	12	10°	50	2,000	12500
M50U	12	24°	50	2,000	4400
M109U	12	30°	50	2,000	3500
M58U	12	38°	50	2,000	2500
M80U	12	60°	50	2,000	1000
M60U	12	10°	65-75	2,000	15000
M82U	12	24°	65-75	2,000	5400
M61U	12	38°	65-75	2,000	2950

M268U	12	10°	20	2,000	4100
M269U	12	38°	20	2,000	850
M290U	12	60°	20	2,000	300
M271U	12	10°	35	2,000	5800
M270U	12	24°	35	2,000	2300
M281U	12	38°	35	2,000	1550
M224U	12	60°	35	2,000	
M249U	12	10°	50	2,000	12500
M250U	12	24°	50	2,000	4400
M258U	12	38°	50	2,000	500
M280U	12	60°	50	2,000	1000
M260U	12	14°	65-75	2,000	15000
M282U	12	24°	65-75	2,000	5400
M261U	12	38°	65-75	2,000	2900

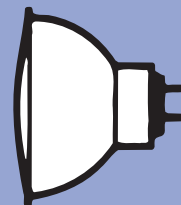
DICHROIC REFLECTOR LAMP
SUPERIOR QUALITY DISPLAY
50mm (MR16) WITH GLASS COVER
BASE GU5.3



DICHROIC UV STOP
REFLECTOR DISPLAY LAMP
50mm (MR16) WITHOUT GLASS
COVER
BASE GU5.3



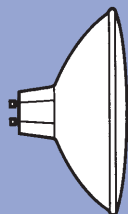
DICHROIC UV STOP
REFLECTOR DISPLAY LAMP
50mm (MR16) WITH GLASS COVER
BASE GU5.3



TAL 100 CLOSED METAL REFLECTOR LAMP

100mm
BASE GU7

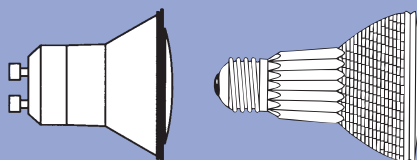
This small range of lamps provides a simple twist and lock action. These lamps have a rated life of 3,500 hours.



ORDER CODE	VOLTS	BEAM ANGLE	WATTS	AVERAGE LIFE HOURS	LIGHT O/P CD
TAL138	12	3°	35	3500	53000
TAL139	12	4°	50	3500	55000
TAL140	12	21°	50	3500	3300

HI-SPOT 50 (PAR16) DELUXE REFLECTOR LAMP BASE GU10, GZ10, SES/E14

A new Halogen reflector lamp which runs on mains voltage without the need of special transformers. Retrofit for R50 spotlamps.



GU10*

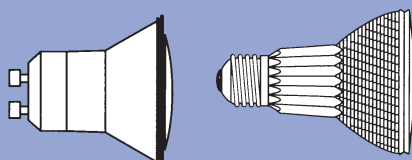
SES/E14**

GZ10 Dichroic*** (not illustrated but similar to GU10)

50PAR16SP*	240	50	25°	2,000	1150
50PAR16FL*	240	50	50°	2,000	500
50PAR16SPD***	240	50	25°	2,500	1150
50PAR16FLD***	240	50	50°	2,500	550
40PAR16FL**	240	40	50°	2,000	500

HI-SPOT 63 (PAR20) DELUXE REFLECTOR LAMP BASE GU10, GZ10, E27 (ES)

Halogen reflector lamps which operate off mains voltage and as a retrofit for the incandescent R63 spotlight providing double the lamp life with constant colour.



GU10*

ES

GZ10 Dichroic*** (not illustrated but similar to GU10)

50PAR20SP	240	50	10°	2,000	3000
50PAR20FL	240	50	25°	2,000	1000
75PAR20SPGU10	240	75	25°	2,500	2500
75PAR20FLGU10	240	75	50°	2,500	1000
75PAR20SPD***	240	75	25°	2,500	2500
75PAR20FLD***	240	75	50°	2,500	1000

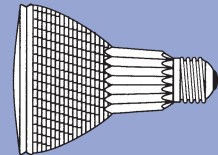
ORDER CODE	VOLTS	BEAM ANGLE	WATTS	AVERAGE LIFE HOURS	LIGHT O/P CD
50PAR25SP	240	10°	50	2,000	4000
50PAR25FL	240	25°	50	2,000	1100
75PAR25SP240	240	10°	75	2,000	5500
75PAR25FL240	240	25°	75	2,000	1300

75PAR30SP240	240	10°	75	2,500	6900
75PAR30FL240	240	30°	75	2,500	2200
100PAR30SP240	240	10°	100	2,500	10000
100PAR30FL240	240	30°	100	2,500	3500
75PAR30SPD*	240	10°	75	3,000	7500
75PAR30FLD*	240	30°	75	3,000	2400

75PAR38SP240	240	10°	75	2,500	6900
75PAR38FL240	240	30°	75	2,500	2200
100PAR38SP240	240	10°	100	2,500	10000
100PAR38FL240	240	30°	100	2,500	3500

HI-SPOT 80 (PAR25) DELUXE REFLECTOR LAMP CAP E27 (ES)

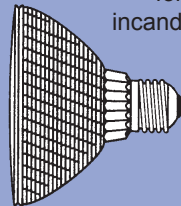
Mains operated reflector, retrofit for incandescent R80 spotlight.



ES

HI-SPOT 95 (PAR30) DELUXE REFLECTOR LAMP CAP E27 (ES)

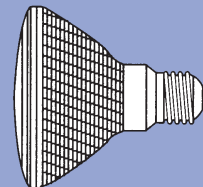
Halogen reflector lamps operate on mains voltage and is a direct retrofit for a standard incandescent R95 spotlight.



ES
Dichroic*

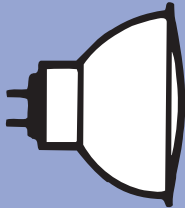
HI-SPOT 120 (PAR38) DELUXE REFLECTOR LAMP CAP E27 (ES)

Halogen Par38 reflector lamps operate on mains voltage and can last up to 3 times as long as a standard incandescent lamp, with constant colour.



ES

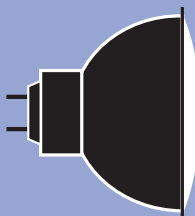
**DICHROIC REFLECTOR LAMP
GENERAL PURPOSE DISPLAY
50mm (MR16) WITH COLOURED
GLASS COVER
BASE GU5.3**



ORDER CODE	VOLTS	BEAM ANGLE	WATTS	AVERAGE LIFE HOURS	COLOUR
M368RU	12	12°	20	3,000	Red
M368GU	12	12°	20	3,000	Green
M368YU	12	12°	20	3,000	Yellow
M368BU	12	12°	20	3,000	Blue
FMW-R	12	38°	35	3,000	Red
FMW-G	12	38°	35	3,000	Green
FMW-Y	12	38°	35	3,000	Yellow
FMW-B	12	38°	35	3,000	Blue
M249R	12	10°	50	3,000	Red
M249G	12	10°	50	3,000	Green
M249Y	12	10°	50	3,000	Yellow
M249B	12	10°	50	3,000	Blue
EXN-R	12	38°	50	3,000	Red
EXN-G	12	38°	50	3,000	Green
EXN-Y	12	38°	50	3,000	Yellow
EXN-B	12	38°	50	3,000	Blue

**REFLEKTO LAMP
COLOURED BACK
50mm (MR16)
BASE GU5.3**

The complete absence of backward light means that these lamps are ideal for use in open grid ceilings or glass showcases, eliminating the need for enclosed fittings.

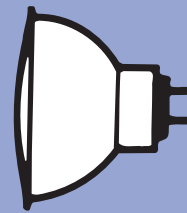


102152	12	24°/BLACK	20	3,500	870
102151	12	36°/BLACK	20	3,500	510
103112*	12	24°/BLACK	35	3,500	2000
103151	12	36°/BLACK	35	3,500	1200
EXZ/CG-BLACK	12	24°/BLACK	50	3,500	3000
EXN/CG-BLACK	12	36°/BLACK	50	3,500	1580
102252	12	24°/SILVER	20	3,500	870
102251	12	36°/SILVER	20	3,500	510
103212*	12	24°/SILVER	35	3,500	2000
103251	12	36°/SILVER	35	3,500	1200
105252	12	24°/SILVER	50	3,500	3000
105251	12	36°/SILVER	50	3,500	1580
102452	12	24°/GOLD	20	3,500	870
102451	12	36°/GOLD	20	3,500	510
103451	12	36°/GOLD	35	3,500	1200
102552	12	24°/CHROME	20	3,500	870
103551	12	36°/CHROME	35	3,500	1200
102352	12	20°/WHITE	20	3,500	870
102351	12	36°/WHITE	20	3,500	510

*Denotes open front

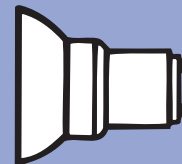
ORDER CODE	VOLTS	BEAM ANGLE	WATTS	AVERAGE LIFE HOURS	COLOUR
M/104	12	10°	50	3,500	Neodymium
M/105	12	24°	50	3,500	Neodymium
60105	12	36°	50	3,500	Neodymium
60106	12	36°	50	3,500	Neodymium

DICHROIC REFLECTOR LAMP
 50mm (MR16) WITH GLASS COVER
 NEODYMIUM
 BASE GU5.3



GBT	12	10°	50	2,000	
GBT/CG*	12	10°	50	2,000	
GBV	12	37°	50	2,000	
GBV/CG*	12	37°	50	2,000	

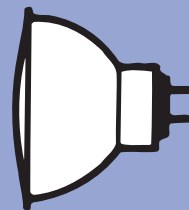
DICHROIC REFLECTOR DISPLAY LAMP
 (COOL SPOT)
 51mm (MR16)
 B15d (SBC)



*NB. /CG indicates glass cover.

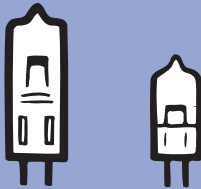
BBF/CGB	12	24°	20	3,500	Black
BBF/CGS	12	24°	20	3,500	Silver
BBFCGW	12	24°	20	3,500	White
BBF/CGG	12	24°	20	3,500	Gold
BAB/CGB	12	36°	20	3,500	Black
BAB/CGS	12	36°	20	3,500	Silver
BAB/CGW	12	36°	20	3,500	White
FMV/CGB	12	24°	35	3,500	Black
FMV/CGS	12	24°	35	3,500	Silver
FMW/CGB	12	36°	35	3,500	Black
FMW/CGS	12	36°	35	3,500	Silver
EXZ/CGB	12	24°	50	3,500	Black
EXZ/CGS	12	24°	50	3,500	Silver
EXZ/CGB	12	38°	50	3,500	Black
EXZ/CGS	12	38°	50	3,500	Silver

DECORATIVE DICHROIC REFLECTOR LAMP
 51mm (MR16) WITH GLASS COVER
 BASE GU5.3



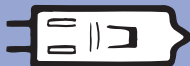
Single ended low voltage capsule lamps can be operated in any position and used for a wide range of applications. The quartz envelopes must never be touched with the fingers and if inadvertently handled must be cleaned before use, using methylated spirits and a soft cloth.

**TUNGSTEN HALOGEN
CAPSULE
CLEAR TRANSVERSE FILAMENT
CAP. G4
Dia 9 x 30mm**



ORDER CODE	VOLTS	ANSI or EQUIV	WATTS	AVERAGE LIFE HOURS	FLUX LUMENS
M42	6	64410	10	2,000	100
13093	6	Obsolete	15	2,000	
M34	6		20	2,000	350
68105	6		35	2,000	600
13283	12	64405	5	2,000	50
13284	12	64415	10	2,000	120
M91	12	13284	10/12	2,000	
64416	12		15	1,000	350
M47	12	64425	20	2,000	350
107510	12		35	2,000	550
64434	24		10	2,000	120
64436	24		15	1,000	350
M88	24	64435	20	1,000	350

**TUNGSTEN HALOGEN
CAPSULE
CLEAR TRANSVERSE FILAMENT
UV STOP
CAP. G4
Dia 9 x 30mm**



M42UV	6	64410U	10	2,000	100
M34UV	6		20	2,000	350
M47UV	12	64425U	20	2,000	350
M88UV	24	64435U	20	2,000	350

**TUNGSTEN HALOGEN
CAPSULE
FROSTED TRANSVERSE FILAMENT
CAP. G4
Dia 9 x 30mm**



13284F	12		10	2,000	120
M47F	12		20	2,000	350
107510F	12		35	2,000	450

**TUNGSTEN HALOGEN
CAPSULE
CLEAR AXIAL FILAMENT
CAP. G4
Dia 9 x 30mm**



M86	12	13078	20	2,000	350
-----	----	-------	----	-------	-----

ORDER CODE	VOLTS	ANSI or EQUIV	WATTS	AVERAGE LIFE HOURS	FLUX LUMENS
64430	6		35	2,000	600
107110	12	61071	20	2,000	280
M95	12	64432	35	2,000	650
M32	12	64440/64016	50	2,000	850
13082	12	64450	75	2,000	1350
M28	12	64623/64458	100	2,000	2700
M89	24	13090/64445	50	2,000	850
HUNTER	24	Obsolete	55	750	1200
64455	24	161310	75	2,000	1500
M67	24	M90	100	2,000	2000
115810	24	64465	150	2,000	3200
M36	24	68036	250	2,000	2750
642150	42		150	2,000	

M312UV	12	61071UV	20	2,000	330
M95UV	12		35	2,000	550
M153UV	12	211044UV	35	2,000	600
M32UV	12		50	2,000	850
M87UV	12	64440UV	50	2,000	900
M313UV	12	64450UV/M154U	75	2,000	1350
M28UV	12	64458UV	100	2,000	2350
M89UV	24	64445UV	50	2,000	850
M67UV	24	M90UV	100	2,000	2000

13094UV	6	M116/64430UV	35	2,000	600
M76UV	12	64427U/M76U	20	2,000	300
M75UV	12		35	2,000	600
M74UV	12	13102UB	50	2,000	900
M73UV	12		75	2,000	1350
64458UV	12	M180U	100	3,000	2150

13094	6	64430	35	2,000	600
M76	12	13104	20	2,000	280
M75	12	13103	35	2,000	650
M74	12	13102	50	3,000	900
M73	12	13101	75	2,000	1350
64458	12	13100	100	2,000	2700
M89AX	24	64445	50	2,000	850
M90AX	24	64460	100	2,000	2000
M196	24	64465	150	2,000	3200

107110F	12		20	2,000	280
M95F	12		35	2,000	650
M32F	12		50	2,000	850
13082F	12		75	2,000	1350
M28F	12		100	2,000	2700

**TUNGSTEN HALOGEN
CAPSULE
CLEAR TRANSVERSE FILAMENT
CAP. GY6.35 1.25mm PIN**



**TUNGSTEN HALOGEN
CAPSULE
CLEAR TRANSVERSE FILAMENT
UV STOP
CAP. GY6.35 1.25mm PIN
Dia 12 x 44mm**



**TUNGSTEN HALOGEN
CAPSULE
CLEAR AXIAL FILAMENT UV STOP
CAP. GY6.35 1.25mm PIN
Dia 12 x 44mm**



**TUNGSTEN HALOGEN
CAPSULE
CLEAR AXIAL FILAMENT
CAP. GY6.35 1.25mm PIN
Dia 12 x 44mm**



**TUNGSTEN HALOGEN CAPSULE
FROSTED TRANSVERSE FILAMENT
CAP. GY6.35 1.25mm PIN
Dia 12 x 44mm**



FLUORESCENT LIGHTING

MINIATURE FLUORESCENT TUBES

FMT2 (7mm 1/4" Dia)

This range of tubes are ideal for use in small, compact fixtures: ie: picture lighting, showcases, caravans and emergency lighting. *ONLY TO BE OPERATED ON ELECTRIC BALLASTS WITH AUTOMATIC POWER-CUT SYSTEM.



T5 STANDARD FLUORESCENT TUBES

(16mm 5/8" Dia)

A range of miniature fluorescent tubes suitable for undershelf lighting, slim fluorescent luminaires and road sign illumination.



ORDER CODE	WATTS	NOMINAL LENGTH mm	COLOUR TEMP °KELVIN	COLOUR	FLUX LUMENS
F6T2830	6	219	3000	Warm White	330
F6T2835	6	219	3500	White	330
F6T2840	6	219	4000	Cool White	330
F6T2860	6	219	6000	Daylight	330
F8T2830	8	320	3000	Warm White	540
F8T2835	8	320	3500	White	540
F8T2840	8	320	4000	Cool White	540
F8T2860	8	320	6000	Daylight	540
F11T2830	11	422	3000	Warm White	750
F11T2835	11	422	3500	White	750
F11T2840	11	422	4000	Cool White	750
F11T2860	11	422	6000	Daylight	750
F13T2830	13	523	3000	Warm White	930
F13T2835	13	523	3500	White	930
F13T2840	13	523	4000	Cool White	930
F13T2860	13	523	6000	Daylight	930

F4T5W	4	150	3450	White	150
F4T5CW	4	150	4200	Cool White	150
F4T5WW	4	150	3000	Warm White	150
F6T5W	6	225	3450	White	300
F6T5CW	6	225	4200	Cool White	290
F6T5WW	6	225	3000	Warm White	330
F8T5W	8	300	3450	White	400
F8T5CW	8	300	4200	Cool White	380
F8T5WW	8	300	3000	Warm White	400
F8T5DL	8	300	6500	Daylight	340
F13T5W	13	525	3400	White	850
F13T5CW	13	525	4000	Cool White	800
F13T5WW	13	525	3000	Warm White	850

ORDER CODE	WATTS	NOMINAL LENGTH mm	COLOUR TEMP °KELVIN	COLOUR	FLUX LUMENS
F14T8CW	14	380	4150	Cool White	700
F15T8827	15	450	2700	Extra Warm White Polyflux 827	1050
F15T8830	15	450	2950	Warm White Polyflux 830	1050
F15T8840	15	450	4000	Cool White Polyflux 840	1050
F15T8W	15	450	3450	White	950
F15T8WW	15	450	2950	Warm White	950
F15T8CW	15	450	4200	Cool White	900
F15T8DL	15	450	6500	Daylight	730
F15T8NL	15	450	6300	North Light	650
F15T8C50	15	450	5000	Chroma 50	620
F15T8950	15	450	5300	Tri-phosphor Deluxe 950	900
F16T8N	16	720	4000	Natural	
F18T8827	18	600	2700	Extra Warm White Polyflux 827	1450
F18T8830	18	600	2950	Warm White Polyflux 830	1450
F18T8835	18	600	3400	White Polyflux 835	1450
F18T8840	18	600	4000	Cool White Polyflux 840	1450
F18T8860	18	600	6300	Daylight Polyflux 860	1300
F18T8930	18	600	3000	Polyflux 930 Dix	950
F18T8940	18	600	3800	Polyflux 940 Dix	1000
F18T8950	18	600	5400	Polyflux 950 Dix	1000
F18T8965	18	600	6500	Tri-phosphor Deluxe 965	1050
F18T8WW	18	600	2950	Warm White	1225
F18T8W	18	600	3450	Warm	1225
F18T8CW	18	600	4200	Cool White	1200
F18T8DN	18	600	3500	Deluxe Natural	700
F18T8DL	18	600	6500	Daylight	950
F18T8NL	18	600	6300	Northlight	1300
F18T8B	18	600		Blue	270
F18T8GO	18	600		Gold	500
F18T8GR	18	600		Green	1590
F18T8P	18	600		Pink	600
F30T8827	30	900	2700	Extra Warm White Polyflux 827	2500
F30T8830	30	900	2950	Warm White Polyflux 830	2500
F30T8840	30	900	4000	Cool White Polyflux 840	2500
F30T8WW	30	900	2950	Warm White	2300
F30T8W	30	900	3450	White	2300
F30T8CW	30	900	4200	Cool White	2250
F30T8NL	30	900	6500	North Light	1500
F30T8DN	30	900	3500	Deluxe Natural	1300
F36T8S830	36	970	2950	Warm White Polyflux 830	3350
F36T8S840	36	970	4000	Cool White Polyflux 840	3350
F36T8S860	36	970	6300	Daylight Polyflux 860	3100
F36T8SCW	36	970	4200	Cool White	2600
F36T8SDL	36	970	6500	Daylight	1900
F36T8827	36	1200	2700	Extra Warm White Polyflux 827	3450
F36T8830	36	1200	2950	Warm White Polyflux 830	3450
F36T8835	36	1200	3400	White Polyflux 835	3450
F36T8840	36	1200	4000	Cool White Polyflux 840	3450
F36T8860	36	1200	6300	Daylight Polyflux 860	3250
F36T8930	36	1200	3000	Polyflux 930 Dix	2300
F36T8940	36	1200	3800	Polyflux 940 Dix	2350
F36T8950	36	1200	5400	Polyflux 950 Dix	2350

T8 STANDARD FLUORESCENT TUBES

(26mm 1" Dia)

Box quantity only

Fluorescent tubes generally have a halophosphate coating which are used in installations where cost is a main factor. Triphosphor tubes have increased in popularity and offer improved benefits over the halophosphate range, including longer life and better colour rendering. The triphosphor range also provide more light for the same power and can result in fewer luminaires in a new installation.



FLUORESCENT LIGHTING

Continued from previous page

T8 STANDARD FLUORESCENT TUBES (26mm 1" Dia)

Box quantity only

Fluorescent tubes generally have a halophosphate coating which are used in installations where cost is a main factor. Triphosphor tubes have increases in popularity and offer improved benefits over the halophosphate range, including longer life and better colour rendering. The triphosphor range also provide more light for the same power and can result in fewer luminaires in a new installation.



ORDER CODE	WATTS	NOMINAL LENGTH mm	COLOUR TEMP °KELVIN	COLOUR	FLUX LUMENS
F36T8965	36	1200	6500	Tri-Phosphor Deluxe 965	2300
F36T8WW	36	1200	2950	Warm White	3000
F36T8W	36	1200	3450	White	3000
F36T8CW	36	1200	4200	Cool White	3000
F36T8DL	36	1200	6500	Daylight	2400
F36T8DN	36	1200	3500	Deluxe Natural	1750
F36T8BL	36	1200		Blue	700
F36T8GO	36	1200		Gold	1400
F36T8GR	36	1200		Green	3890
F36T8P	36	1200		Pink	1500
F38T8830	38	1050	3000	Warm White Polylux 830	3640
F38T8840	38	1050	4000	Cool White Polylux 840	3640
F38T8W	38	1050	3450	White	3050
F38T8DN	38	1050	3500	Deluxe Natural	1750
F50T8WW	50	1500	2950	Warm White	3800
F50T8W	50	1500	3450	White	3800
F58T8827	58	1500	2700	Extra Warm White Polylux 827	5400
F58T8830	58	1500	2950	Warm White Polylux 830	5400
F58T8835	58	1500	3400	White Polylux 835	5400
F58T8840	58	1500	4000	Cool White Polylux 840	5400
F58T8860	58	1500	6300	Daylight Polylux 860	5200
F58T8930	58	1500	3000	Polylux 930 Dix	3600
F58T8940	58	1500	3800	Polylux 940 Dix	3750
F58T8950	58	1500	5400	Polylux 950 Dix	3750
F58T8965	58	1500	6500	Tri-Phosphor Deluxe 965	3700
F58T8WW	58	1500	2950	Warm White	4800
F58T8W	58	1500	3450	White	4800
F58T8CW	58	1500	4200	Cool White	4700
F58T8DL	58	1500	6500	Daylight	3580
F58T8DN	58	1500	3500	Deluxe Natural	2750
F58T8BL	58	1500		Blue	1100
F58T8GO	58	1500		Gold	2350
F58T8GR	58	1500		Green	6220
F58T8P	58	1500		Pink	2350
F70T8830	70	1800	2950	Tr-Phosphor 830	6550
F70T8835	70	1800	3400	Tr-Phosphor 835	6550
F70T8840	70	1800	4000	Tr-Phosphor 840	6550
F70T8W	70	1800	3450	White	5800
F70T8WW	70	1800	2950	Warm White	5800
F70T8CW	70	1800	4000	Cool White	5700

ORDER CODE	WATTS	NOMINAL LENGTH mm	COLOUR TEMP °KELVIN	COLOUR	FLUX LUMENS
F14T12CW	14	375		Cool White	675
F15T12CW	15	450		Cool White	780
F20T12830	20	600	3000	Warm White Polyflux 830	1450
F20T12840	20	600	4000	Cool White Polyflux 840	1450
F20T12WW	20	600	2950	Warm White	1225
F20T12W	20	600	3450	White	1225
F20T12CW	20	600	4200	Cool White	1200
F20T12DL	20	600	6500	Daylight	950
F20T12WMS	20	600	5450	White Metal Strip	1225
F20T12NL	20	600	6500	North Light	850
F20T12KR	20	600	4000	Kolor-Rite	850
F20T12AD	20	600	6500	Artificial Daylight	700
F20T12C50	20	600	500	Chroma 50	875
F40T12W-2FT	40	600	3450	White	2000
F40T12WMS	40	600	3450	White Metal Strip	2000
F40T12WW-2FT	40	600	2950	Warm White	2000
F40T12CW-2FT	40	600	4200	Cool White	2000
F40T12830	40	1200	3000	Warm White Polyflux 830	3450
F40T12840	40	1200	4000	Cool White Polyflux 840	3450
F40T12WW	40	1200	2950	Warm White	3050
F40T12W	40	1200	3450	White	3050
F40T12CW	40	1200	4200	Cool White	3000
F40T12N	40	1200	4050	Natural	2375
F40T12DL	40	1200	6500	Daylight	2400
F40T12RSCW	40	1200	4200	R.S. Start Cool White	3000
F40T12NL	40	1200	6500	North Light	2000
F40T12KR	40	1200	4000	Kolor-Rite	2000
F40T12DN	40	1200	3500	Deluxe Natural	1750
F40T12AD	40	1200	6500	Artificial Daylight	1750
F48T12CW/HO	60	1200	R.D.C.	High Output Cool White	4300
F65T12830	65/80	1500	3000	Warm White Polyflux 830	5400
F65T12840	65/80	1500	4000	Cool White Polyflux 840	5400
F65T12WW	65/80	1500	2950	Warm White	5000
F65T12W	65/80	1500	3450	White	5000
F65T12CW	65/80	1500	4200	Cool White	4850
F65T12N	65/80	1500	4050	Natural	3775
F65T12DL	65/80	1500	6500	Daylight	3700
F65T12WMS	65/80	1500	3450	White Metal Strip	5000
F65T12NL	65/80	1500	6500	North Light	3150
F65T12KR	65/80	1500	4000	Kolor-Rite	3300
F65T12DN	65/80	1500	3500	Deluxe Natural	2950
F65T12AD	65/80	1500	6500	Artificial Daylight	2950
F75T12830	75/85	1800	3000	Tri-Phosphor 830	7000
F75T12840	75/85	1800	4000	Tri-Phosphor 840	7000
F75T12W	75/85	1800	3500	White	6200
F75T12WW	75/85	1800	2900	Warm White	6200
F75T12CW	75/85	1800	3300	Cool White	6050
F75T12NL	75/85	1800	6500	North Light	3700
F75T12KR	75/85	1800	4000	Kolor-Rite	3900
F75T12AD	75/85	1800	6500	Artificial Daylight	3300

T12 STANDARD FLUORESCENT TUBES (38mm 1½" Dia) Box quantity only



FLUORESCENT LIGHTING

T12 SUNBED TUBES

(38mm 1½" Dia)

Cleo Performance UVA

A range of standard performance sunbed lamps used for cosmetic tanning.



ORDER CODE	WATTS	NOMINAL LENGTH mm	COLOUR	FLUX LUMENS
UVA40WPERF	40	600	UVA BLUE	
UVA40WPPERF	40	600	UVA PINK	
UVA80WPERF	80	1500	UVA BLUE	
UVA80WPPERF	80	1500	UVA PINK	
UVA100WPERF	100	1800	UVA BLUE	
UVA100WPPERF	100	1800	UVA PINK	

T12 SUNBED TUBES

(38mm 1½" Dia)

Cleo Performance RUVA

with internal reflector of 200 degrees



RUVA40PERFR	40	600 with Reflector	RUVA BLUE
RUVA40PPERFR	40	600 with Reflector	RUVA PINK
RUVA80PERFR	80	1500 with Reflector	RUVA BLUE
RUVA80PPERFR	80	1500 with Reflector	RUVA PINK
RUVA100PERFR	100	1800 with Reflector	RUVA BLUE
RUVA100PPERFR	100	1800 with Reflector	RUVA PINK

T12 SUNBED TUBES

(38mm 1½" Dia)

Professional range

A full range of Sunbed tubes for cosmetic tanning in professional and cosmetic sunbed installations.



PROF80UVA5	80	1500	UVA
PROF80RUVA5	80	1500 with Reflector	RUVA
PROF140UVA5	140	1500	UVA
PROF100UVA6	100	1800	UVA
PROF100RUVA6	100	1800 with Reflector	RUVA
PROF160UVA6	160	1800	UVA
PROF160RUVA6	160	1800 with Reflector	RUVA

ORDER CODE	WATTS	NOMINAL LENGTH mm	DIAMETER	COLOUR	FLUX LUMENS
F8W/GRO	8	288	T5(16mm)	GROLUX	130
F14W/GRO	14	360	T5(16mm)	GROLUX	235
F15W/GRO	15	438	T8(26mm)	GROLUX	280
F18W/GRO	18	590	T8(26mm)	GROLUX	370
F20W/GRO	20	590	T12(38mm)	GROLUX	450
F25W/GRO	25	742	T8(26mm)	GROLUX	580
F30W/GRO	30	895	T8(26mm)	GROLUX	700
F36W/GRO	36	1200	T8(26mm)	GROLUX	930
F38W/GRO	38	1047	T8(26mm)	GROLUX	1000
F58W/GRO	58	1500	T8(26mm)	GROLUX	1400

GROLUX TUBES

This range of tubes stimulate plant growth in areas where there is insufficient daylight, they provide the correct balance of blue and red energy. Common uses are for: greenhouses, flower shows and aquarium plants.



TLX2033	20	600	White	1060
TLX4033	40	1200	White	2500
TLX6533	65	1500	White	4700

SPECIAL FLUORESCENT TUBES (TLX) SINGLE PIN Fa6



FL10D	10	350	White
FL20D	20	580	White

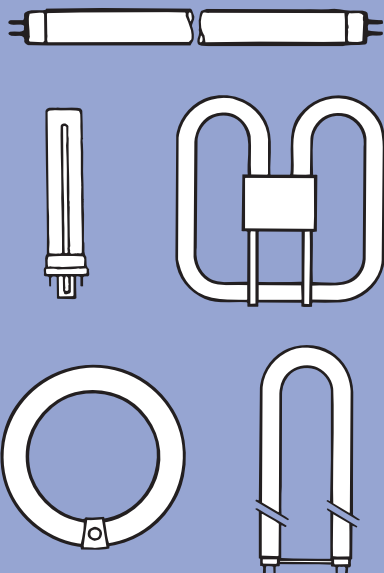
SPECIAL FLUORESCENT RECESSED CONNECTION



FLUORESCENT LIGHTING

INSECTOCUTOR BLACK LIGHT BL 350 TUBES (ACTINIC COLOUR 05)

A range of special fluorescent tubes manufactured for use in food preparation areas for hygiene purposes. ie: electronic flykillers.



GERMICIDAL TUBES

A range of U.V. tubes for use in specialist applications such as water and air purification.




ORDER CODE	WATTS	NOMINAL LENGTH mm	COLOUR TEMP °KELVIN	COLOUR	LIGHT O/P UV mw @ 1M
F4T5BL350	4	150		UV BL350	0.25
F6T5BL350	6	225		UV BL350	0.6
F8T5BL350	8	300		UV BL350	1.0
F11T5BL350	11	225		UV BL350	
F12T8BL350	12	300		UV BL350	1.4
F15T8BL350	15	450		UV BL350	2.0
F20T12BL350	20	600		UV BL350	3.0
F25T12BL350	25	450		UV BL350	
F30T8BL350	30	900		UV BL350	
F40T12BL350-2ft	40	600		UV BL350	
F40T12BL350	40	1200		UV BL350	7.5
F115T12BL350	115	1200		UV BL350	
F20UT8BL350	20	U-Tube		UV BL350	
FC22BL350	22	Round		UV BL350	
U9W	9	300		Lynx Insectocutor	
U11W	11	300		Lynx Insectocutor	
F2DE28BL350	28			UV BL350	

G4T5	4	150		Clear Glass	5.4
G6T5	6	225		Clear Glass	22
G8T5	8	300		Clear Glass	17
G15T8	15	450		Clear Glass	38
G30T8	30	900		Clear Glass	92
55TUVHO	55	975		Clear Glass	
75TUVHO	75	1200		Clear Glass	
115TUVVHOR	115	1200		Clear Glass	
9TUV	9	167x28		Clear Glass	2.4
11TUV	11	236x28		Clear Glass	3.6
18TUV	18	225x38		Clear Glass	
36TUV	36	415x38		Clear Glass	
55TUV	55	535x38		Clear Glass	

ORDER CODE	WATTS	NOMINAL LENGTH mm	COLOUR TEMP °KELVIN	COLOUR	LIGHT O/P UV mw @ 1M
F20UT8/05	20	265		Ultra Violet	
F40UT8835	40	525	3400	Polylux 835	3250
F40UT829	40	525	3000	Warm White	2875
F40UT835	40	525	3450	White	2875
F40UT833	40	525	4200	Cool White	2875

SPECIAL MOD-U-LINE T8

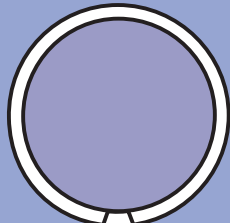
A range of U-shape fluorescent tubes suitable for use in recessed or modular luminaries.



TL5C22827	22	231 Dia	2700	Extra Warm White	1800
TL5C22830	22	231 Dia	3000	Warm White	1800
TL5C22835	22	231 Dia	3500	White	1800
TL5C22840	22	231 Dia	4000	Cool White	1800
TL5C40827	40	306 Dia	2700	Extra Warm White	3300
TL5C40830	40	306 Dia	3000	Warm White	3300
TL5C40835	40	306 Dia	3500	White	3300
TL5C40840	40	306 Dia	4000	Cool White	3300
TL5C55830	55	306 Dia	3000	Warm White	4200
TL5C55840	55	306 Dia	4000	Cool White	4200
TL5C55860	55	306 Dia	6000	Daylight	4200


CIRCULAR FLUORESCENT TUBES 'TL'5 CAP. 2GX13

A range of circular fluorescent lamps with a tube diameter of only 16mm, to bring the benefits of the TL5 concept.



FC8T9WW	22	210 Dia	3000	Warm White	1050
FC8T9CW	22	210 Dia	4100	Cool White	1150
FC8T9CWRS	22	210 Dia		Cool White	1100
FC12T9WW	32	312 Dia	3000	Warm White	1875
FC12T9CW	32	312 Dia	4100	Cool White	1700
FC16T9WW	40	413 Dia	3000	Warm White	2800
FC16T9CW	40	413 Dia	4100	Cool White	2300
FC1660WW	60	413 Dia	3000	Warm White	3700

CIRCULAR FLUORESCENT TUBES T9 CAP. SPEC 4 PIN G10q

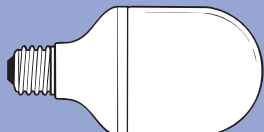


FLUORESCENT LIGHTING

COMPACT FLUORESCENT TUBULAR TYPE

CAP B22d (BC), E27 (ES)
WITH BUILT-IN ELECTRONIC CONTROL GEAR

A range of lamps which replace ordinary GLS lamps, and have built-in electronic control gear. This compact lamp is fitted with an opal glass outer bulb to provide a similar quality of light to tungsten filament lamps.

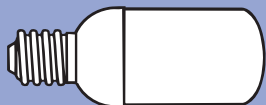


ORDER CODE	WATTS	NOMINAL LENGTH mm	COLOUR TEMP °KELVIN	COLOUR	FLUX LUMENS
ET10BC28	10	60 x 137	2800	Soft White	500
ET10ES28	10	60 x 137	2800	Soft White	500
ET15BC28	15	60 x 137	2800	Soft White	820
ET15ES28	15	60 x 137	2800	Soft White	820
ET20BC28	20	60 x 160	2800	Soft White	1160
ET20ES28	20	60 x 160	2800	Soft White	1160
ET25BC28	25	70 x 151	2800	Soft White	1470
ET25ES28	25	70 x 151	2800	Soft White	1470

COMPACT FLUORESCENT SL PRISMATIC LAMPS

CAP B22d (BC), E27 (ES)
WITH BUILT-IN ELECTRONIC CONTROL GEAR

A range of lamps which replace ordinary GLS lamps, and have built-in electronic control gear. This compact lamp is fitted with a clear prismatic glass outer bulb to provide a similar quality of light to tungsten filament lamps.



F9BCSLPR	9	64 x 154	2700	Extra Warm White	Colour 82	400
F9ESSLPR	9	64 x 155	2700		Colour 82	400
F13BCSLPR	13	64 x 164	2700		Colour 82	400
F13ESSLPR	13	64 x 165	2700		Colour 82	400
F18BCSLPR	18	64 x 174	2700		Colour 82	400
F18ESSLPR	18	64 x 175	2700		Colour 82	400
F25BCSLPR	25	64 x 184	2700		Colour 82	400
F25ESSLPR	25	64 x 185	2700		Colour 82	400

COMPACT FLUORESCENT REFLECTOR

CAP. B22d (BC), E27 (ES)
WITH INTEGRATED BALLAST



F11BCREF	11	123 x 184	2700	Extra Warm White	Colour 82	450
F15BCREF	15	123 x 184	2700		Colour 82	900
F20BCREF	20	123 x 184	2700		Colour 82	1200
F11ESREF	11	123 x 184	2700		Colour 82	450
F15ESREF	15	123 x 184	2700		Colour 82	900
F20ESREF	20	123 x 184	2700		Colour 82	1200

FLUORESCENT LIGHTING

ORDER CODE	WATTS	NOMINAL LENGTH mm	COLOUR TEMP °KELVIN	COLOUR	FLUX LUMENS
EG10BC28	10	95 x 132	2800	Soft White	500
F11BCGLOP	11	100 x 154	2700	Extra Warm White Colour 82	450
F15BCGLOP	15	100 x 166	2700	Extra Warm White Colour 82	700
EG16BC28	16	95 x 132	2800	Soft White	820
F18BCGLOP	18	115 x 173	2700	Extra Warm White Colour 82	850
F20BCGLOP	20	125 x 190	2700	Extra Warm White Colour 82	1000
EG25BC28	25	95 x 137	2800	Soft White	1320

COMPACT FLUORESCENT GLOBE TYPE

B22d (BC)

WITH INTEGRATED BALLAST

A range of low energy decorative compact fluorescent lamps with built in electronic control gear for use in GLS fixtures.

Average rated life 8,000 hrs.



EG10ES28	10	95 x 132	2800	Soft White	500
F11ESGLOP	11	100 x 154	2700	Extra Warm White Colour 82	450
F15ESGLOP	15	100 x 166	2700	Extra Warm White Colour 82	700
EG16ES28	16	95 x 132	2800	Soft White	820
F18ESGLOP	18	115 x 173	2700	Extra Warm White Colour 82	850
F20ESGLOP	20	125 x 190	2700	Extra Warm White Colour 82	1000
EG25ES28	25	95 x 137	2800	Soft White	1320

COMPACT FLUORESCENT GLOBE TYPE

E27 (ES)

WITH INTEGRATED BALLAST



EFR15ES28	15	80 x 137	2800	Soft White	130-150

COMPACT FLUORESCENT REFLECTOR GLOBE TYPE

E27 (ES)

WITH INTEGRATED BALLAST

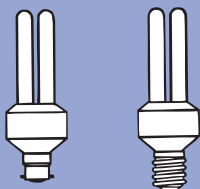


FLUORESCENT LIGHTING

COMPACT FLUORESCENT TUBULAR (GLS REPLACE) CAP. B22d (BC), E27 (ES) WITH INTEGRATED BALLAST DOUBLE TUBE

A range of double biax energy saving lamps with built in control gear, making them suitable to replace GLS lamps in most existing luminaries.

Average rated life is 8,000 hours

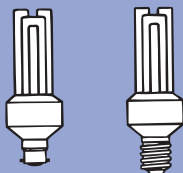


ORDER CODE	WATTS	NOMINAL LENGTH mm	COLOUR TEMP °KELVIN	COLOUR	FLUX LUMENS
F5BCED	5	40 x 115	2700	Warm White	200
F7BCED	7	58 x 145	2700	Extra Warm White Colour 82	400
F9BCED	9	46 x 123	2700	Colour 82	420
F11BCED	11	46 x 139	2700	Colour 82	600
F15BCED	15	46 x 159	2700	Colour 82	900
F20BCED	20	46 x 192	2700	Colour 82	1200
F23BCED	23	46 x 192	2700	Colour 82	1500
F5ESED	5	40 x 115	2700	Warm White	200
F7ESED	7	58 x 145	2700	Colour 82	400
F9ESED	9	46 x 123	2700	Colour 82	420
F11ESED	11	46 x 139	2700	Colour 82	600
F15ESED	15	46 x 159	2700	Colour 82	900
F20ESED	20	46 x 192	2700	Colour 82	1200
F23ESED	23	46 x 192	2700	Colour 82	1500

COMPACT FLUORESCENT TUBULAR (GLS REPLACE) CAP. B22d (BC), E27 (ES) WITH INTEGRATED BALLAST TRIPLE TUBE

This range of lamps has built in control gear and are suitable as a direct replacement for GLS lamps in most existing luminaries.

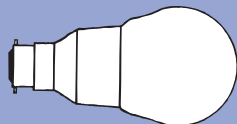
This triple turn lamp offers a reduction in length to suit smaller light fittings.



F15BCET827	15	55 x 148	2700	Warm White	900
F15BCET840	15	55 x 148	4000	Cool White	900
F20BCET827	20	55 x 158	2700	Warm White	1200
F20BCET840	20	55 x 158	4000	Cool White	1200
F23BCET827	23	55 x 178	2700	Warm White	1600
F23BCET840	23	55 x 178	4000	Cool White	1600
F15ESET827	15	55 x 148	2700	Warm White	900
F15ESET840	15	55 x 148	4000	Cool White	900
F20ESET827	20	55 x 158	2700	Warm White	1200
F20ESET840	20	55 x 158	4000	Cool White	1200
F23ESET827	23	55 x 178	2700	Warm White	1600
F23ESET840	23	55 x 178	4000	Cool White	1600

COMPACT FLUORESCENT ECOTONE AMBIANCE (GLS REPLACE) CAP. B22d (BC) E27 (ES) WITH INTEGRATED BALLAST

This small range of lamps has been designed for the domestic market and is a CFL lamp in the traditional glass bulb GLS shape.



F5BCAMC	5	66 x 134	2700	Warm White	200
F5ESAMC	5	66 x 134	2700	Warm White	200
F9BCAMC	9	66 x 134	2700	Warm White	400
F9ESAMC	9	66 x 134	2700	Warm White	400
F11BCAMC	11	66 x 134	2700	Warm White	600
F11ESAMC	11	66 x 134	2700	Warm White	600
F15BCAMC	15	66 x 150	2700	Warm White	900
F15ESAMC	15	66 x 150	2700	Warm White	900
F20BCAMC	20	66 x 170	2700	Warm White	1200
F20ESAMC	20	66 x 170	2700	Warm White	1200

FLUORESCENT LIGHTING

COMPACT FLUORESCENT CAP. 4 PIN 2G11 PLL, DULUX L, BIAX L, LYNX L/LE SINGLE TUBE

A range of biaxial compact fluorescent lamps suitable for modular ceiling lighting fixtures. Replaces linear fluorescents twice the length. Single ended for simpler installations.



COMPACT FLUORESCENT CAP. 4 PIN 2G11 PLL DELUXE, DULUX L, DELUXE SINGLE TUBE WITH EXCELLENT COLOUR RENDERING



COMPACT FLUORESCENT CAP. 2G10 DULUX 'F', Lynx 'F'

A flat compact fluorescent range of lamps with a high lumen output. The F style lamp is half the length of the L type yet gives a higher light output.



ORDER CODE	WATTS	NOMINAL LENGTH mm	COLOUR TEMP °KELVIN	COLOUR	FLUX LUMENS
FSL18827	18	225	2700	Extra Warm White	1200
FSL18830	18	225	3000	Warm White	1200
FSL18835	18	225	3500	White	1200
FSL18840	18	225	4000	Cool White	1200
FSL24827	24	320	2700	Extra Warm White	1800
FSL24830	24	320	3000	Warm White	1800
FSL24835	24	320	3500	White	1800
FSL24840	24	320	4000	Cool White	1800
FSL36827	36	415	2700	Extra Warm White	2900
FSL36830	36	415	3000	Warm White	2900
FSL36835	36	415	3500	White	2900
FSL36840	36	415	4000	Cool White	2900
FSL40827	40	535	2700	Extra Warm White	3500
FSL40830	40	535	3000	Warm White	3500
FSL40835	40	535	3500	White	3500
FSL40840	40	535	4000	Cool White	3500
FSL55830	55	535	3000	Warm White	4700
FSL55835	55	535	3500	White	4700
FSL55840	55	535	4000	Cool White	4700

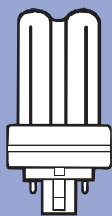
FSLD18540	18	225	5400	Day Light	750
FSLD18380	18	225	3800	Cool White	750
FSLD18300	18	225	3000	Warm White	750
FSLD24540	24	320	5400	Day Light	1200
FSLD24380	24	320	3800	Cool White	1200
FSLD24300	24	320	3000	Warm White	1200
FSLD36540	36	415	5400	Day Light	1900
FSLD36380	36	415	3800	Cool White	1900
FSLD36300	36	415	3000	Warm White	1900

FSF18840	18	122	4000	Cool White	1100
FSF18830	18	122	3000	Warm White	1100
FSF18827	18	122	2700	Extra Warm White	1100
FSF24840	24	171	4000	Cool White	1700
FSF24830	24	171	3000	Warm White	1700
FSF24827	24	171	2700	Extra Warm White	1700
FSF36840	36	217	4000	Cool White	2800
FSF36830	36	217	3000	Warm White	2800
FSF36827	36	217	2700	Extra Warm White	2800

FLUORESCENT LIGHTING

COMPACT FLUORESCENT CAP. 2 PIN GX24d-1/2/3 PLT, DULUX 'T', BIAX 'T' TRIPLE TUBE with INTERNAL STARTER

A range of compact fluorescent lamps with a triangular arrangement of light sources which give full rotational light distribution.



COMPACT FLUORESCENT CAP. 4 PIN GX24q-1/2/3 PLT/E, DULUX T/E, BIAX T/E LYNX T/TE TRIPLE TUBE for HIGH FREQUENCY and DIMMING OPERATIONS



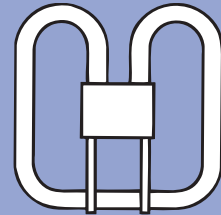
ORDER CODE	WATTS	NOMINAL LENGTH mm	COLOUR TEMP °KELVIN	COLOUR	FLUX LUMENS
FT13827	13	114	2700	Extra Warm White	890
FT13830	13	114	3000	Warm White	890
FT13835	13	114	3500	White	890
FT13840	13	114	4000	Cool White	890
FT13865	13	114	6500	Day light	890
FT18827	18	124	2700	Extra Warm White	1150
FT18830	18	124	3000	Warm White	1150
FT18835	18	124	3500	White	1150
FT18840	18	124	4000	Cool White	1150
FT18865	18	124	6500	Day light	1150
FT26827	26	139	2700	Extra Warm White	1710
FT26830	26	139	3000	Warm White	1710
FT26835	26	139	3500	White	1710
FT26840	26	139	4000	Cool White	1710
FT26865	26	139	6500	Day light	1710

FTE13827	13	106	2700	Extra Warm White	890
FTE13830	13	106	3000	Warm White	890
FTE13835	13	106	3500	White	890
FTE13840	13	106	4000	Cool White	890
FTE18827	18	116	2700	Extra Warm White	1150
FTE18830	18	116	3000	Warm White	1150
FTE18835	18	116	3500	White	1150
FTE18840	18	116	4000	Cool White	1150
FTE26827	26	131	2700	Extra Warm White	1710
FTE26830	26	131	3000	Warm White	1710
FTE26835	26	131	3500	White	1710
FTE26840	26	131	4000	Cool White	1710
FTE32827	32	146	2700	Extra Warm White	2400
FTE32830	32	146	3000	Warm White	2400
FTE32835	32	146	3500	White	2400
FTE32840	32	146	4000	Cool White	2400

ORDER CODE	WATTS	NOMINAL LENGTH mm	COLOUR TEMP °KELVIN	COLOUR	FLUX LUMENS
F2D16827	16		2700	Extra Warm White	1050
F2D16835	16		3500	White	1050
F2D16860	16		6000	Day light	1050
F2D28827	28		2700	Extra Warm White	2050

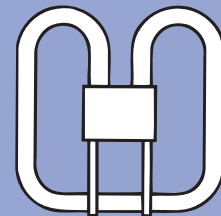
COMPACT FLUORESCENT CAP. GR8 2 PIN

This unique lamp is one of the most popular compact fluorescent lamps available, the lamp produces a high lumen output through the use of the triphosphor colours.



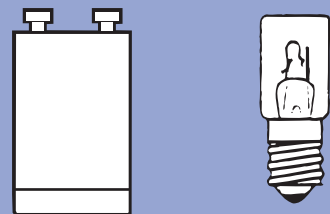
F2DE10827	10		2700	Extra Warm White	650
F2DE10835	10		3500	White	650
F2DE16827	16		2700	Extra Warm White	1050
F2DE16835	16		3500	White	1050
F2DE21827	21		2700	Extra Warm White	1350
F2DE21835	21		3500	White	1350
F2DE21860	21		6000	Day Light	1350
F2DE28827	28		2700	Extra Warm White	2050
F2DE28835	28		3500	White	2050
F2DE28840	28		4000	Cool White	2050
F2DE38827	38		2700	Extra Warm White	2850
F2DE38835	38		3500	White	2850
F2DE55827	55		2700	Extra Warm White	3900
F2DE55835	55		3500	White	3900

COMPACT FLUORESCENT CAP. 4 PIN GR10



S2	4-22	41		Glow Switch
S10	4-65	41		Glow Switch
S16	70-125	41		Glow Switch
ES10	18-125	41		Electronic
S2E	2x18	41		Electronic
FG1E	20	48		Glow Switch
FG7E	4-10	48		Glow Switch

FLUORESCENT STARTERS



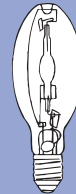
E17 CAP Fitting

ORDER CODE	WATTS	LUMENS	COLOUR	FINISH	BURN
HIE50WU4K	50	3400	4000	clear	U
HIE50WCU4K	50	3400	3700	coated	U
HIE70WU4K	70	5600	4000	clear	U
HIE70WCU4K	70	5600	3700	coated	U
HIE70WU3K	70	5600	3200	clear	U
HIE70WCU3K	70	5300	3200	coated	U
HIE100WU4K	100	9000	4000	clear	U
HIE100WCU4K	100	8500	3700	coated	U
HIE100WU3K	100	9000	3200	clear	U
HIE100WCU3K	100	8500	3200	coated	U
HIE150WU4K	150	15000	4000	clear	U
HIE150WCU4K	150	14250	3700	coated	U
HIE150WCU3K	150	13500	3200	coated	U

HIPE70WU4K	70	5600	4000	clear	U
HIPE70WCU4K	70	5300	3700	coated	U
HIPE70WU3K	70	5600	3200	clear	U
HIPE70WCU3K	70	5300	3200	coated	U
HIPE70WCV27K	70	5000	2700	coated	V±15°
HIPE70WUUVSPS4K	70	5600	4000	clear	U
HIPE70WCUUVSPS4K	70	5300	3700	coated	U
HIPE100WU4K	100	8500	4000	clear	U
HIPE100WCU4K	100	8100	3700	coated	U
HIPE100WU3K	100	8500	3200	clear	U
HIPE100WCU3K	100	8100	3200	coated	U
HIPE100WCV27K	100	8100	2700	coated	V±15°
HIPE100WUUVSPS4K	100	8500	4000	clear	U
HIPE100WCUUVSPS4K	100	8100	3700	coated	U
HIPE150WU4K	150	14250	4000	clear	U
HIPE150WCU4K	150	13500	3700	coated	U
HIPE150WU3K	150	14250	3200	clear	U
HIPE150WCU3K	150	13500	3200	coated	U
HIPE150WCV27K	150	13500	2700	coated	V±15°
HIPE150WUUVSPS4K	150	14250	4000	clear	U
HIPE150WCUUVSPS4K	150	13500	3700	coated	U

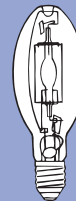
**LOW WATTAGE E27
ENCLOSED FIXTURE
CLEAR AND COATED
ELLIPSOIDAL**

This range of metal halide lamps are available in both clear or coated finish and are suitable for use in applications where improved colour rendition is required such as exterior floodlighting of buildings. They can operate on high pressure sodium (HPS) ballast together with standard metal halide ignitor.



**LOW WATTAGE E27
OPEN FIXTURE
CLEAR AND COATED
ELLIPSOIDAL**

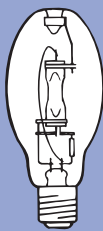
Suitable for High Pressure sodium (HPS) control gear with Std. metal Halide ignitor. This range of metal halide lamps are suitable for open fixtures, giving easy lamp replacement and high efficiency due to fixtures not requiring diffusers or lenses.



UVS = Ultra violet shield
PS = Pulse start

**200-450 WATT E40
ENCLOSED FIXTURE
CLEAR AND COATED
ELLIPSOIDAL
HIGH PERFORMANCE**

Uni-form™ lamps for more light come in 250, 400 and 450 watts. They produce 10% to 20% more light, maintain their light levels longer, and show excellent colour uniformity as opposed to standard metal halide lamps. The 200 and 350 watt Uni-Form energy-saving lamps are designed to replace standard 250 and 400 watt metal halide lamps. These lamps operate on reactor/ignitor ballast systems specifically designed to realise the best performance from these light sources, including longer life and better lumen maintenance.



PS = Pulse start

**200-450W E40
OPEN FIXTURE
CLEAR AND COATED
ELLIPSOIDAL
HIGH PERFORMANCE**



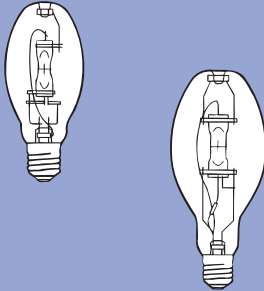
UVS = Ultra violet shield
PS = Pulse start

ORDER CODE	WATTS	LUMENS	COLOUR	FINISH	BURN
HIE250WHBUPS4K	250	26300	4000	clear	BU±90°
HIE250WCHBUPS4K	250	25000	3700	coated	BU±90°
HIE400WHBUPS4K	400	44000	4000	clear	BU±90°
HIE400WCHBUPS4K	400	42000	3700	coated	BU±90°
HIE450WBUPS4K	450	50000	4000	clear	BU±15°
HIE450WCBUPS4K	450	47500	3700	coated	BU±15°

HIPE250WBUPS4K	250	25000	4000	clear	BU±15°
HIPE250WCBUPS4K	250	23800	3700	coated	BU±15°
HIPE250WBUUVSPS4K	250	25000	4000	clear	BU±15°
HIPE250WCBUUVSPS4K	250	23800	3700	coated	BU±15°
HIPE400WBUPS4K	400	42000	4000	clear	BU±15°
HIPE400WCBUPS4K	400	40000	3700	coated	BU±15°
HIPE400WBUUVSPS4K	400	42000	4000	clear	BU±15°
HIPE400WCBUUVSPS4K	400	40000	3700	coated	BU±15°
HIPE450WBUPS4K	450	47500	4000	clear	BU±15°
HIPE450WCBUPS4K	450	45200	3700	coated	BU±15°

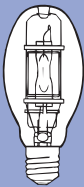
**STD WHITE-LUX E40
ENCLOSED FIXTURE
ELLIPSOIDAL**

These lamps can be used as direct retrofit on HPS control gear, which gives the most economical method of converting from yellow HPS lighting to white metal halide. Most common applications are flooding, factories, car park, retail warehouses, showrooms etc.



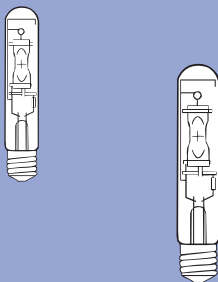
ORDER CODE	WATTS	LUMENS	COLOUR	FINISH	BURN
HIE250WBULU4K	250	20000	4000	clear	BU±15°
HIE250WCBULU4K	250	19000	3700	coated	BU±15°
HIE250WHBULU4K	250	19000	4000	clear	BU±90°
HIE250WCHBULU4K	250	18000	3700	coated	BU±90°
HIE400WCBULU3K	400	36000	3200	coated	BU±15°
HIE400BULU4K	400	40000	4000	clear	BU±15°
HIE400WCBULU4K	400	38000	3700	coated	BU±15°
HIE400WHBULUE904K	400	36000	4000	clear	BU±90°

**STD WHITE-LUX E40
OPEN FIXTURE
ELLIPSOIDAL**



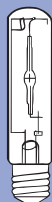
HIPE250WCHBULU4K	250	18000	3700	coated	BU±90°
------------------	-----	-------	------	--------	--------

**STD WHITE-LUX E40
ENCLOSED FIXTURE
TUBULAR**



HIT250WHBULU4K	250	19000	4000	clear	BU±90°
HIT250WHBULU5K	250	16800	5200	clear	BU±90°
HIT400WHBULU4K	400	36000	4000	clear	BU±90°
HIT400WHBULU5K	400	32000	5200	clear	BU±90°

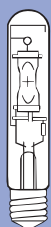
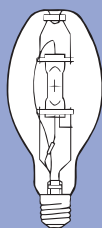
**WHITE LUX PLUS E40
ENCLOSED FIXTURE
CLEAR
TUBULAR**



ORDER CODE	WATTS	LUMENS	COLOUR	FINISH	BURN
HIT70WHBULU4K	70	5600	4000	clear	BU±90°
HIT100WHBULUT384K	100	9000	4000	clear	BU±90°
HIT100WHBULUT464K	100	9000	4000	clear	BU±90°
HIT150WHBULUT384K	150	15000	4000	clear	BU±90°
HIT150WHBULUT464K	150	15000	4000	clear	BU±90°

**EURO HIGH WATTAGE E40
ELLIPSOIDAL AND TUBULAR**
Lamps operate on mercury (MBF)
Ballast with STD. metal Halide
ignitor.

Euro Lamps make up a range of metal halide lamps suitable for mercury ballasts with 600-750 volt, 2-wire ignitors. They provide a cost-effective solution for implementing metal halide lighting.

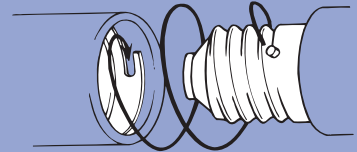


HIE175WCHBUEURO4K	175	13300	3700	coated	BU±90°
HIE250WCHBUEURO4K	250	20000	3700	coated	BU±90°
HIE250WCBUEURO4K	250	22000	3700	coated	BU±15°
HIE250WBUEURO4K	250	23000	4000	clear	BU±15°
HIT250WHBUEURO4K	250	21000	4000	clear	BU±90°
HIE400CHBUEURO4K	400	34200	3700	coated	BU±90°
HIE400CBUEURO4K	400	38000	3700	coated	BU±15°
HIE400BUEURO4K	400	40000	4000	clear	BU±15°
HIT400HBUEURO4K	400	36000	4000	clear	BU±90°

ORDER CODE	WATTS	LUMENS	COLOUR	FINISH	BURN
HIE250WHOREURO4K	250	23000	4000	clear	HOR±45°
HIE250WCHOREURO4K	250	22000	3700	coated	HOR±45°
HIT250WHOREURO4K	250	23000	4000	clear	HOR±45°
HIE400WCHOREURO4K	400	38000	3700	coated	HOR±45°
HIT400WHOREURO4K	400	40000	4000	clear	HOR±45°

**POSITION ORIENTED LAMPS
E40PO.**

E40PO bases are used with horizontal burning lamps. Embedded in the base is an aligning pin. This is to ensure that when the lamp is screwed into its socket, the lamp is properly oriented to achieve maximum performance.



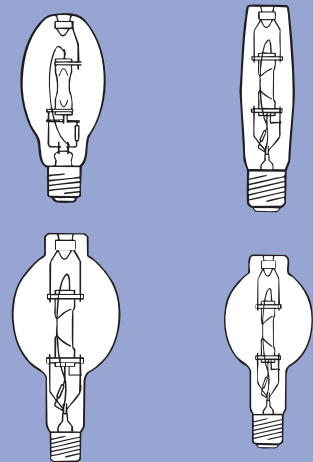
HIE175WUE544K	175	14000	4000	clear	BU±105°
HIE175WCUE544K	175	13300	3700	coated	BU±105°
HIE175WU4K	175	14000	4000	clear	BU±105°
HIE175WCU4K	175	13300	3700	coated	BU±105°
HIE250WU4K	250	21000	4000	clear	BU±105°
HIE250WCU4K	250	20000	3700	coated	BU±105°
HIE400WUE904K*	400	36000	4000	clear	BU±105°
HIE400WU4K**	400	36000	4000	clear	BU±105°
HIE400WCUE904K*	400	34000	3700	coated	BU±105°
HIE400WCU4K**	400	34000	3700	coated	BU±105°
HIE1000WU4K**	1000	110000	4000	clear	BU±105°
HIE1000WCU4K**	1000	105000	3700	coated	BU±105°
HIE1000WUBT1204K*	1000	110000	4000	clear	BU±105°
MH1500WHBU	1500	155000	3400	clear	BU±105°

**USA-TYPE CONSTANT
WATTAGE LAMPS. E40
ENCLOSED FIXTURE.**

This range of lamps operate in any burning position, and operate on CWA control gear.

These lamps are direct replacements for multi-vapour and super metal arc lamps.

Applications: floodlighting, sports lighting etc.

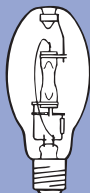


*Reduced Jacket

**Open rated if used in BU application

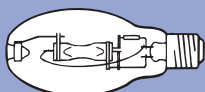
**USA-TYPE
CONSTANT WATTAGE
HIGH OUTPUT LAMPS.
ELLIPSOIDAL - E40**

Operates on CWA control gear. Direct replacement for multi-vapour and Super Metal Arc Lamps.



BASE (E40PO)

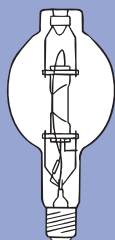
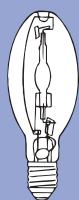
This range of metal halide lamps are direct replacements for multi-vapour and super metal arc lamps. CWA lamps run on same ballasts as universal lamps, but require no ignitor.



* Reduced Jacket

DESIGNER COLOUR LAMPS

These primary colour generation lamps require no filtration. Ideal for theme parks, architectural lighting and building facades. To be used in enclosed fittings only.



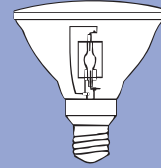
ORDER CODE	WATTS	LUMENS	COLOUR	FINISH	BURN
VERTICAL CONSTANT WATTAGE LAMPS					
HIE175BU4K	175	15000	4000	clear	BU±15°
HIE175CBU4K	175	14300	3700	coated	BU±15°
HIE175CBU3K	175	14000	3200	coated	BU±15°
HIE250CBU4K	250	22000	3700	coated	BU±15°
HIE250CBU3K	250	20000	3200	coated	BU±15°
HIE400BU4K	400	40000	4000	clear	BU±15°
HIE400CBU4K	400	38000	3700	coated	BU±15°
HIE400CBU3K	400	36000	3200	coated	BU±15°
HORIZONTAL CONSTANT WATTAGE LAMPS					
MS175HOR	175	15000	4000	clear	HOR±45°
MS175CHOR	175	14300	3700	coated	HOR±45°
MS175CHOR3K	175	14000	3200	coated	HOR±45°
MS250HOR	250	23000	4000	clear	HOR±45°
MS250CHOR	250	22000	3700	coated	HOR±45°
MS250CHOR3K	250	20000	3200	coated	HOR±45°
MS400HOR	400	40000	4000	clear	HOR±45°
MS400CHOR	400	38000	3700	coated	HOR±45°
MS400CHOR3K	400	36000	3200	coated	HOR±45°
MS400HORED28*	400	40000	4000	clear	HOR±45°
MS400CHORED28*	400	38000	3700	coated	HOR±45°

ORDER CODE	WATTS	TYPE	COLOUR	FINISH	BURN
MHDE70BDX	70	double ended	blue	clear	R7s
MHDE70GDX	70	double ended	green	clear	R7s
MHDE70MDX	70	double ended	magenta	clear	R7s
MHDE70ODX	70	double ended	orange	clear	R7s
MHDE150BDX	150	double ended	blue	clear	R7s
MHDE150GDX	150	double ended	green	clear	R7s
HIE150UBDX	150	ellipsoidal	blue	clear	E27
HIE150UGDX	150	ellipsoidal	green	clear	E27
HIT400HBUADX	400	tubular	aqua	clear	E40
HIT400HBUGDX	400	tubular	green	clear	E40
HIT400HBUBDX	400	tubular	blue	clear	E40
HIT400HBUPDX	400	tubular	pink	clear	E40
MH1000UADX	1000	BT178	aqua	clear	E39
MH1000UBDX	1000	BT178	blue	clear	E39
MH1000UGDX	1000	BT178	green	clear	E39
MH1000UPDX	1000	BT178	pink	clear	E39

*Par 38, 56, 64 and low wattage metal halide lamps operate on high pressure sodium ballast together with metal halide ignitor.
The 250 & 400 watt lamps operate on mercury ballast together with a metal halide ignitor.
This range of lamps have varying beam widths and provide a crisp white light.*

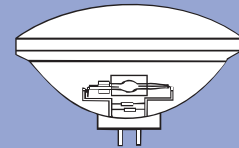
ORDER CODE	WATTS	COLOUR	FIXTURE	BEAM ANGLE	BASE
MP70UPAR383K20	70	3200	open	20°	E26
MP70UPAR383K35	70	3200	open	35°	E26
MP70UPAR383K65	70	3200	open	65°	E26
MP100UPAR383K20	100	3200	open	20°	E26
MP100UPAR383K35	100	3200	open	35°	E26
MP100UPAR383K65	100	3200	open	65°	E26

**PAR LAMPS SINGLE ENDED.
PAR 38 OPEN FIXTURE**



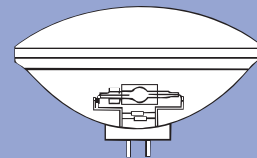
MP70UPAR563K10	70	3200	open	10°	BI-PRONG
MP100UPAR563K10	100	3200	open	10°	BI-PRONG
MP100UPAR563K22	100	3200	open	22°	BI-PRONG
MP150UPAR563K15	150	3200	open	15°	BI-PRONG
MP150UPAR563K30	150	3200	open	30°	BI-PRONG

**PAR LAMPS SINGLE ENDED.
PAR 56 OPEN FIXTURE**



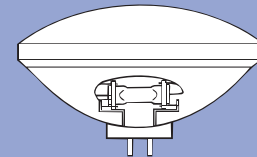
MP70UPAR643K25	70	3200	open	25°	BI-PRONG
MP100UPAR643K10	100	3200	open	10°	BI-PRONG
MP150UPAR643K15	150	3200	open	15°	BI-PRONG
MP150UPAR643K30	150	3200	open	30°	BI-PRONG

**PAR 64
OPEN FIXTURE**



MS250UPAR6420	250	4000	enclosed	20°	BI-PRONG
MS400UPAR6430	400	4000	enclosed	30°	BI-PRONG

**PAR 64
ENCLOSED FIXTURE**



OSRAM POWERSTAR® HQI® compact range are some of the smallest metal halide lamps in the world. Long service life, high light output and low thermal radiation make these lamps the ideal choice for the best lighting quality and economical operation.

WDL and NDL colours are suitable for use in combination with tungsten halogen lighting. UVS version, with their special UV-STOP absorbing quartz envelopes eliminate the additional expense of using special UV filters for sensitive display items.

Applications: Interior e.g. Factories, sales areas, retail displays, foyers, hotels, restaurants, exhibition areas, sports halls and atria.
Exterior e.g. Stadia, tennis courts, golf ranges, facades and monuments.

**COMPACT HQI-T
SINGLE ENDED
CLEAR
TUBULAR**



ORDER CODE	WATTS	LUMENS	COLOUR	BASE	BURN
H70W	70	5200	3000/WDL	G12	U
H70N	70	5500	4200/NDL	G12	U
H150W	150	12000	3000/WDL	G12	U
H150W	150	12500	4200/NDL	G12	U

**COMPACT HQI-TS
DOUBLE ENDED
CLEAR**



H70SW	70	5000	3000/WDL	Rx7s	P45
H70SND	70	5500	4200/NDL	Rx7s	P45
H70SD	70	4550	5200/D	Rx7s	P45
H150SW	150	11250	3000/WDL	Rx7s-24	P45
H150SND	150	11000	4200/NDL	Rx7s-24	P45
H150SD	150	11000	5200/D	Rx7s-24	P45

**COMPACT HQI-TS UVS
DOUBLE ENDED
CLEAR WITH UV STOP QUARTZ**



H70UVW	70	5500	3000/WDL	Rx7s-24	P45
H70UVN	70	5500	4200/NDL	Rx7s-24	P45
H70UVD	70	5500	5200/D	Rx7s-24	P45
H150UVW	150	11250	3000/WD	Rx7s-24	P45
H150UVN	150	11250	4200/NDL	Rx7s-24	P45
H150UVD	150	11250	5200/D	Rx7s-24	P45
H250UVW	250	20000	3200/WDL	FC2	P45
H250UVN	250	20000	4200/NDL	FC2	P45
H250UVD	250	20000	5100/D	FC2	P45

POWERSTAR HCI



COMPACT HCI-T Single ended					
HC35	35	3400	3300°k	G12	U
HC70	70	6500	3300°k	G12	U
HC150	150	14000	3300°k	G12	U
COMPACT HCI-TS Double ended					
HC70SW	70	6300	3300°k	Rx7s	U
HC15SW	150	13500	3300°k	Rx7s-24	U

**POWERSTAR HQI-E
ELLIPTICAL
DIFFUSE EXTERNAL IGNITOR**



H70EW	70	4200	3000/WDL	E27	U
H70EN	70	4700	4000/NDL	E27	U
H10EW	100	7800	3200/WDL	E27	U
H10EN	100	7800	4000/NDL	E27	U
H15EW	150	10500	3200/WDL	E27	U
H15EN	150	10500	3800/NDL	E27	U
H250ED	250	19000	5200/D	E40	U
H400EN	400	40000	3600/N	E40	U
H400ED	400	31000	5900/D	E40	U
H100EN	1000	80000	4700/N	E40	h45

ORDER CODE	WATTS	LUMENS	COLOUR	BASE	BURN
H70EWC	70	4500	3000/WDL	E27	U
H70ENC	70	5000	4200/NDL	E27	U
H10EWC	100	8200	3200/WDL	E27	U
H10ENC	100	8200	4000/NDL	E27	U
H15ENC	150	11400	4000/NDL	E27	U
H40ENC	400	45000	3800/NDL	E40	U

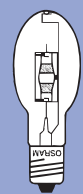
H150NR	150	11000	4000°k	Cables	U

H250D	250	20000	5400/D	E40	U
H25NSI	250	31000	4400/N/SI	E40	U
H400N	400	42000	3800/N	E40	U
H400D	400	32000	5200/D	E40	U
H40NSI	400	31000	4400/N/SI	E40	P30
H400B	400	8000	blue	E40	U
H400G	400	26000	green	E40	U
H1KWD	1000	80000	6000/D	E40	P60
H2KNES	2000	240000	4000/N/E	E40	P60
H2KWNE	2000	180000	4500/N/E	E40	P60
H35KWD	3500	320000	6000/D	E40	P60

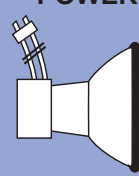
83330	2000	180000	4500/N	E40	U
H2KWNI	2000	180000	4500/N	E40	P60
H2KWDI	2000	180000	6000	E40	P60

H250SW	250	20000	3000/WDL	FC2	P45
H25SND	250	20000	4200/NDL	FC2	P45
H250SD	250	20000	5100/D	FC2	P45
H400SN	400	36000	4200/NDL	FC2	P45
H400SD	400	36000	5400/D	FC2	P45
H1KSD	1000	90000	5600/D	FC2	P45
H1KDLS	1000	90000	4200/NDL	cable	U
H1KDS	1000	95000	5900/D/S	cable	U
H2KDS	2000	200000	5800/DS	cable	U

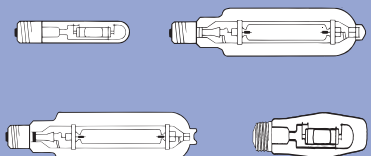
**POWERSTAR HQI-E
ELLIPTICAL, CLEAR
EXTERNAL IGNITOR**



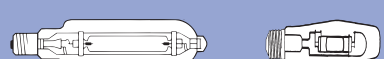
POWERSTAR HQI-R



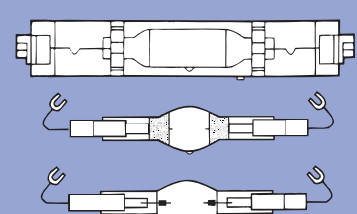
**POWERSTAR HQI-T
TUBULAR, CLEAR
EXTERNAL IGNITOR**



**POWERSTAR HQI-T
TUBULAR, CLEAR
INTERNAL IGNITOR**

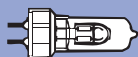


**POWERSTAR HQI-TS
DOUBLE ENDED, CLEAR**



Choose Arcstream with high pressure sodium ballasts and metal halide igniters for retail display lighting, high quality exterior floodlighting and anywhere a crisp, white light is required. Perfect optical control delivering a high accurate, quality light precisely where you want. Long life up to 6,000 hours. Excellent colour reproduction making it ideal for display lighting. Good colour consistency throughout life, so your display maintains its looks.

ARCSTREAM SINGLE ENDED TUBULAR



ORDER CODE	WATTS	LUMENS	COLOUR	BASE	BURN
MBI70TX30	70	5600	3000	G12	U
MBI70TX40	70	5600	4200	G12	U
MBI150T30	150	11500	3000	G12	U
MBI150T40	150	12000	4200	G12	U

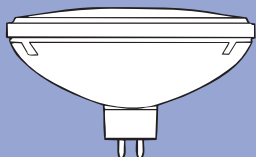
ARCSTREAM DOUBLE ENDED MQI



MQI70T630	70	6000	3000/WDL	Rx7s	H±45°
MQI70T635	70	6000	3500/BDL	Rx7s	H±45°
MQI70T643	70	6000	4200/NDL	Rx7s	H±45°
MQI150T730	150	13000	3000/WDL	R7s-24	H±45°
MQI150T735	150	12000	3500/BDL	R7s-24	H±45°
MQI150T743	150	12000	4200/NDL	R7s-24	H±45°
MQI250T830	250	20000	3000/WDL	FC2	H±45°
MQI250T843	250	20000	4200/NDL	FC2	H±45°

Choose Sportlight high wattage lamps for sports and floodlighting. The excellent colour rendering and appearance of these lamps makes them especially suitable where television cameras are used. Excellent optical control with minimal beam spread even along focal lengths. High output providing high illumination levels even from high towers. Excellent colour performance accurately reproducing colours to create more authentic and attractive floodlit environments.

METAL HALIDE CSI PAR 64 SEALED BEAM



CSIPAR64G38	1000	76000	4000	G38	H90
CSIPAR64HRG38	1000	76000	4000	G38	H90

SPORTLIGHT MBIL-LINEAR METAL HALIDE

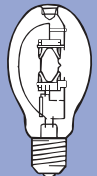


MBILS750H	750	67000	5200	Rx7s	HOR±15°
MBILS1000H	1000	80000	5200	Rx7s	HOR±15°
MBILS1500H	1500	120000	5200	Rx7s	HOR±15°
MBILS1600H	1600	135000	5200	Rx7s	HOR±15°
MBILS2000	2000	200000	5200	Rx7s	HOR±15°

Choose Kolorarc with mercury ballasts and metal halide ignitors for commercial and industrial interiors, shopping malls and floodlighting. High brightness - providing high illumination levels even when installed in high ceiling areas. High energy efficiency offering maximum energy cost savings. Excellent colour reproduction providing more attractive lighting environments compared to high pressure sodium and mercury arc lamps.

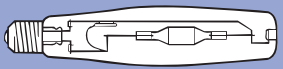
ORDER CODE	WATTS	LUMENS	COLOUR	BASE	BURN
MXR100U27	100	9000	3200/WDL	E27	U
MBI250H	250	22500	4500/NDL	E40	HOR±15°
MBI400BU	400	32000	4500/NDL	E40	BU±30°
MBI400H	400	32000	4500/NDL	E40	HOR±45°
MBI1000U	1000	92000	4500/NDL	E40	U

**KOLORARC MBI/MXR
CLEAR
ELLIPTICAL**



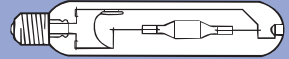
MBID400TH	400	25000	6000	E40	HOR
MBID400TV	400	28000	6000	E40	BU±45°
MBID1000TH	1000	80000	6000	E40	HOR
MBID2000T	2000	170000	6000/DL	E40	H60
MBID2000THR	2000	170000	6000/DL	E40	H60
MBID2000TI	2000	170000	6000/DL	E40	H60

**KOLORARC MBI DAYLIGHT
CLEAR
TUBULAR**



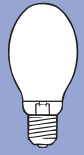
MBI250T	250	20500	4200/NDL	E40	HOR±15°
MBID250TV	250	19000	6000/NDL	E40	BU±45°
MBID250TH	250	19000	6000/NDL	E40	HOR
MBI400T	400	35000	4200/NDL	E40	HOR±15°

**KOLORARC MBI-T
CLEAR
TUBULAR**



MXR100CU27	100	8500	3200/WDL	E27	U
MBI250FH	250	19500	4000/NDL	E40	HOR±15°
MBID250FH	250	17000	6000/DL	E40	HOR±45°
MBID250FV	250	17000	6000/DL	E40	BU±45°
MBI400FBU	400	30500	4000/NDL	E40	BU±45°
MBI400FH	400	35500	4000/NDL	E40	HOR±45°
MBID400FV	400	26000	6000/DL	E40	BU±45°
MBID400FH	400	24000	6000/DL	E40	HOR±45°
MBI1000FU	1000	92000	4000/NDL	E40	U
MBID1000FU	1000	68000	6000/DL	E40	HOR±45°

**KOLORARC MBIF
COATED
ELLIPTICAL**



Choose high output Multi-Vapour lamps with constant wattage auto-transformer (CWA) ballast for large scale commercial and industrial interiors, shopping malls and floodlighting. Extra long life - of up to 20,000 hours on CWA gear. Warm, rich colour that gives merchandise, furnishings and decor added appeal. High colour temperatures to blend exceptionally well in mixed applications with incandescent, halogen and warm white fluorescent sources.

**MULTI-VAPOUR MXR/MVR
DIFFUSED
ELLIPTICAL**



ORDER CODE	WATTS	LUMENS	COLOUR	BASE	BURN
MVR175SP30U40	175	12000	3000/WDL	E40	U
MXR175CBU40	175	15750	3100/WDL	E40	U
MVR175CU40	175	13200	3900/NDL	E40	U
MVR250SP30U40	250	18000	3000/WDL	E40	U
MVR250CU40	250	19800	3900/NDL	E40	U
MVR400SP30VBU40	400	36000	3200/WDL	E40	VBU±15°
MVR400SP30U40	400	33000	3000/WDL	E40	U
MVR400CU40	400	33900	3700/NDL	E40	U
MVR1000CU40	1000	110000	3400/NDL	E40	U

**MULTI-VAPOUR MXR/MVR
CLEAR
ELLIPTICAL**



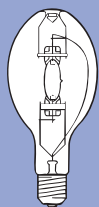
MXR175BU40	175	15750	3200/WDL	E40	BU
MVR175U40	175	14000	4100/NDL	E40	U
MVR250U40	250	21000	4250/NDL	E40	U
MVR400U40	400	36000	4000/NDL	E40	U
MVR1000U40	1000	105000	3800/NDL	E40	U

**MULTI-VAPOUR/
HIGH OUTPUT MVR
DIFFUSED
ELLIPTICAL**



MVR175CHOR	175	14100	3500/NDL	E39P	HOR±15°
MVR250CHOR	250	21600	3600/NDL	E39P	HOR±15°
MVR400CHOR	400	37600	4000/NDL	E39P	HOR±15°
MVR400CVBU40	400	37600	3700/NDL	E40	VBU±15°

**MULTI-VAPOUR/
HIGH OUTPUT MVR
CLEAR
ELLIPTICAL**



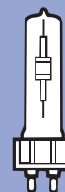
MVR175HOR	175	15000	4000/NDL	E39P	HOR±15°
MVR250HOR	250	23000	4200/NDL	E39P	HOR±15°
MVR400HHOR	400	40000	4200/NDL	E39P	HOR±15°
MVR400VBU40	400	40000	4200/NDL	E40	VBU±15°
MPR400VBU40	400	38000	3400/NDL	E40	VBU±15°

CDM-T(D) are metal halide lamps with stable colour characteristics over lifetime. The small axial discharge arc and compact lamp dimension allow high beam intensities to be created. The relatively low heat output enhances comfort in indoor applications. Note: All lamps now in UV-Block.

Applications: shop window display lighting, offices and public buildings, floodlighting and pedestrian areas.

ORDER CODE	WATTS	LUMENS	COLOUR	BASE	BURN
35CDMT830	38	3400	3000	G12	U
70CDMT830	70	6600	3000	G12	U
70CDMT942	70	6400	4200	G12	U
150CDMT830	147	14000	3000	G12	U
150CDMT942	147	13500	4200	G12	U

**TYPE CDM-T
SINGLE ENDED METAL HALIDE
G12**



70CDMTD830	71	6300	3000	Rx7s-24	HORZ±45%
70CDMTD942	71	6400	4200	Rx7s-24	HORZ±45%
150CDMTD830	147	13500	3000	Rx7s-24	HORZ±45%
150CDMTD942	147	13000	4200	Rx7s-24	HORZ±45%

**TYPE CDM-TD
DOUBLE ENDED METAL HALIDE**



70CDMTT830	70	6300	3000	E27	U
150CDMTT830	150	13500	3000	E40	U

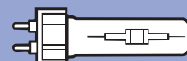
**TYPE CDM-TT
SINGLE ENDED METAL HALIDE
FOR OUTDOOR**



Specials

35CDMTC830	39	3400	3000	special / G8.5	U
------------	----	------	------	----------------	---

**TYPE CDM-TC
COMPACT SINGLE ENDED
METAL HALIDE CAPSULE**



TYPE CDM-R SINGLE ENDED METAL HALIDE REFLECTOR

BASE ES.

AVAILABLE SPOT AND FLOOD

CDM-R are reflector metal halide lamps with warm colour appearance.

The small axial discharge arc and optimal positioning in the internal reflector allow high beam intensities to be created. CDM-R lamps can be used in open luminaires.



PAR 20*

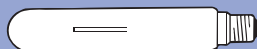


PAR 30**

ORDER CODE	WATTS	LUMENS	COLOUR	BASE	BURN
35CDMR830FL	38	2400/30°	3000	E27	U**
35CDMR830FLP20	38	2300/30°	3000	E27	U*
35CDMR830SP	38	2400/10°	3000	E27	U**
35CDMR830SPP20	38	2300/10°	3000	E27	U*
70CDMR830FLP30	73	4500/40°	3000	E27	U**
70CDMR830SPP30	73	4500/10°	3000	E27	U**

TYPE HPI-T TUBULAR METAL HALIDE

Single-ended metal halide lamps with a quartz discharge tube in a hard glass clear tubular envelope. These lamps combine a natural white colour appearance with a pleasant light and high luminous efficacy, both initially and through a long lifetime.



250HPIT	245	17000	4600	E40	P20
400HPIT	390	30500	4500	E40	P20
1000HPIT	965	82000	4300	E40	P20
4152000HPIT	1900	183000	4300	E40	P20
2000HPIT	1960	189000	4900	E40	P75

TYPE HPI-PLUS ELLIPTICAL METAL HALIDE

Single-ended metal halide lamps with a quartz discharge tube in a hard glass ovoid coated envelope. These lamps combine a natural white colour appearance with a pleasant light and high efficacy, both initially and through long lifetime.



250HPIPLUSBU	256	17000	4300	E40	h15
400HPIPLUSBU	400	32500	4300	E40	h15
400HPIPLUSBUS	400	32500	4300	E40	h15
400HPIPLUSBUP	400	32500	4300	E40	h15
400HPIPLUSBUSP	400	32500	4300	E40	h15

ORDER CODE	WATTS	LUMENS	COLOUR	BASE	BURN
1000MHDTD	1040	90000	5600	X528/cables	P5
1000MHNTD	1040	100000	4200	X528/cables	P5
2000MHNLA956	2040	190000	5600	X528/cables	P5
2000MHNLA842	2040	220000	4200	X528/cables	P5

1800MHD	1800	155000	5600	PsFc20-6	P15
4151800MHD	1800	160000	5600	PsFc20-6	P15

Double-envelope, single or double-ended lamps with a quartz discharge tube. MHN-T lamps are single-ended with a tubular UV block clear hard glass envelope and protective double outer sleeve, allowing use in open luminaries. MHN-TD and MHW-TD lamps are double-ended with a clear UV-block quartz evacuated outer envelope. Luminaries require a protective front glass. Burning positions: MHN(W)-TD - universal; MHN(W)-TD - horizontal, with a tolerance of +/- 45 degrees.

70MHNTD	75	5500	4200	Rx7s	P45
70MHWTD	75	6000	3000	Rx7s	P45
150MHNTD	150	12100	4200	Rx7s-24	P45
150MHWTD	150	13000	3000	Rx7s-24	P45
250MHNTD	252	20000	4200	Fc2	P45

70MHNT	75	5300	4000	PG12-2	U
150MHNT	147	12000	4000	PGX12-2	U
70CDMTP942*	70	5800	4200°k	PG12-2	U
150CDMTP942*	150	12000	4200°k	PG12-2	U

**Replaces 70MHNT and 150MHNT*

**TYPE MHD-TD/MHN-TD
LINEAR HALIDE**

These lamps offer a natural white colour appearance with high luminous efficacy and compact size. They are intended for professional sports lighting and floodlighting applications.

Without outer envelopes they allow the design of more compact luminaire systems with precision optics and optimised system efficacy.



**TYPE MHD-ARENA-VISION
DOUBLE ENDED METAL HALIDE**

These lamps offer a natural white colour appearance with high luminous efficacy and compact size. They are intended for professional sports lighting and floodlighting applications. Enclosed luminaires with UV Absorbing front glass are required.



**TYPE MHN-MHW
DOUBLE ENDED METAL HALIDE**



**TYPE MHN-T
SINGLE ENDED METAL HALIDE**



DISCHARGE LIGHTING

HIGH PRESSURE MERCURY STANDARD HQL/MBF/HPL-N

A range of universal discharge lamps combining excellent colour rendering with good efficiency.

Common applications: road lighting, lighting of docks, railway yards, parks and gardens etc.



ORDER CODE	WATTS	LUMENS	COLOUR	BASE	BURN
MB50	50	1800	3850	E27	U
MB80	80	3700	3850	E27	U
MB803	80	3700	3850	B22d-3	U
MB125	125	6300	3850	E27	U
MB1253	125	6300	3850	B22d-3	U
MB125G	125		3850	E40	U
MB250	250	13000	3850	E40	U
MB400	400	22000	3850	E40	U
MB700	700	40000	3850	E40	U
MB1KLV	1000	58000	3850	E40	U
MB1KHV	1000	58000	3850	E40	U

HQL DELUXE (MBFU DELUXE) HPL COMFORT

A range of mercury discharge lamps which are ideal for indoor and outdoor lighting fixtures, giving a warm colour and enhanced light output over standard MBFU lamps.



HQ50D	50	2000	3400	E27	U
HQ80D	80	4000	3400	E27	U
HQ125D	125	6500	3400	E27	U
HQ250D	250	14000	3400	E40	U
HQ400D	400	24000	3400	E40	U

HQLSD SUPER DELUXE (MBFSD)

This range of mercury discharge lamps provide a warmer colour than the deluxe lamps with the advantage of greater light output.



50MBSFD	50	2000	3400	E27	U
80MBSFD	80	4000	3400	E27	U
125MBSFD	125	6500	3400	E27	U
250MBSFD	250	14000	3400	E40	U
400MBSFD	400	24000	3400	E40	U

DISCHARGE LIGHTING

ORDER CODE	WATTS	LUMENS	COLOUR	BASE	BURN
250MBDX	250	12100	3900	E40	U
400MBDX	400	22500	3900	E40	U
1000MBDX	1000	63000	3900	E40	U

MR250	250	11500	3900	E40	U
MR400	400	20500	3900	E40	U
MR700	700	35000	3900	E40	U
MR1KLV	1000	52000	3900	E40	U
MR1KHV	1000	52000	3900	E40	U

HQ80RD	80	3000		E27	U
MR125	125	5000		E27	U

KOLORLUX DX LONG LIFE

This small range of mercury discharge lamps meet IEC and ANSI specifications for applications demanding standard US spec.



HQL-R DELUXE REFLECTOR (MBFR)/HPL-R

Reflector lamps that direct downwards onto the working surface. These lamps operate off mains voltage and are ideal for use in industrial installations.



HQL-R DELUXE REFLECTOR (MBF-R DELUXE)



DISCHARGE LIGHTING

HWL / MBTF / MLL MERCURY TUNGSTEN BLENDED

This range of self-ballasting lamps are a direct retrofit in luminaires for incandescent lamps.

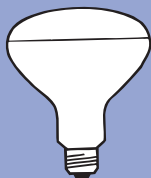
They provide warm white light with good energy efficiency.



ORDER CODE	WATTS	LUMENS	COLOUR	BASE	BURN
MBFT100	100	1100	3300	B22d	H30
MBFTE100	100	1100	3300	E27	H30
MBFT	160	2800	3600	B22d	H30
MBFTE	160	2800	3600	E27	H30
MBFT25	250	5600	3400	E40	H45
MBFTE25	250	5600	3400	E27	H45
MBFT500	500	14000	3700	E40	H45

HWLR-DELUXE REFLECTOR (MBTFR/MLR)

A self ballasting lamp with an internal reflector.



HWR160	160	2500	3400	E27	H30
--------	-----	------	------	-----	-----

SOX LOW PRESSURE SODIUM

These lamps have a U-shaped discharge tube in a clear tubular outer bulb. The benefit of this type of lamp is the very high efficiency which produces low energy costs. However, its yellow colour provides few applications; ie: road lighting, tunnel lighting and security applications.



SX18	18	1800	1750	BY22d	H20
SX35	35	4600	1750	BY22d	H20
SX55	55	7650	1750	BY22d	H20
SX90	90	12750	1750	BY22d	H20
SX135	135	22000	1750	BY22d	H20
SX180	180	33000	1750	BY22d	H20

ORDER CODE	WATTS	LUMENS	COLOUR	BASE	BURN
SXE18	18	1770	1800	By22d	H20
SXE26	26	4060	1800	By22d	H20
SXE36	36	6400	1800	By22d	H20
SXE66	66	10800	1800	By22d	H20
SXE91	91	16800	1800	By22d	H20
SXE131	131	26000	1800	By22d	H20

SOX-E LOW PRESSURE "SUPER SOX"

This range of sox lamps provide greater energy savings by reducing wattages with only a small reduction in light output.



SX35PLUS	35	4550	1800	By22d	H110
SX55PLUS	55	8000	1800	By22d	H110
SX90PLUS	90	13400	1800	By22d	P20
SX135PLUS	135	22300	1800	By22d	P20

SOX-P LOW PRESSURE "SOX-PLUS"

This range of sox lamps are totally interchangeable with standard sox lamps, but have an increased life expectancy in the order of 25%.



S50E	50	3300	1900	E27	U
S70	70	5800	1900	E27	U
S100	100	9200	1950	E40	U
S150	150	14500	2000	E40	U
S250	250	26000	2000	E40	U
S400	400	47500	2000	E40	U
S1000	1000	120000	2050	E40	U

STANDARD SON-E/NAV-E DIFFUSED, ELLIPTICAL (WITHOUT IGNITOR)

A range of elliptical high pressure sodium lamps with internal phosphor coating suitable for use in industrial or street lighting fittings. The lamps offer extremely long life and good lumen maintenance stability.



DISCHARGE LIGHTING

STANDARD SON-E/NAV-E DIFFUSED, ELLIPTICAL (WITH IGNITOR)

A range of lamps offering all the benefits of SON-E lamps but suitable for use in circuits without an external ignitor.



ORDER CODE	WATTS	LUMENS	COLOUR	BASE	BURN
S50I	50	3500	1900	E27	U
S70I	70	5600	1900	E27	U
S100I	100	9600	2000	E40	U
S110I	110	7500	1950	E27	U
S120I	120	10500	1950	E27	U
S150I	150	15750	2000	E40	U
S210I	210	17400	2000	E40	U
S220I	220	23000	2000	E40	U
S250I	250	28000	2000	E40	U
S310I	310	36000	2000	E40	U
S350I	350	35000	2000	E40	U
S400I	400	50000	2000	E40	U

DELUXE SON-E/NAV-E DIFFUSED, ELLIPTICAL (WITHOUT IGNITOR)

A range of lamps which offer better colour rendering than the standard elliptical SON, with higher efficiency and better lumen maintenance.



S35DL	35	1900	1900	E27	U
S70DL	70	5800	1900	E27	U
S150DL	150	12500	1950	E40	U
S250DL	250	23000	2000	E40	U
S400DL	400	38000	2000	E40	U

DELUXE SON-E/NAV-E DIFFUSED, ELLIPTICAL (WITH IGNITOR)



S250DI	250	22000	2000	E40	U
--------	-----	-------	------	-----	---

DISCHARGE LIGHTING

ORDER CODE	WATTS	LUMENS	COLOUR	BASE	BURN
S35P	35	2000	1900	E27	U
(Obsolete)					
S50P	50	4400	1900	E27	U
S70P	70	6600	1900	E27	U
S100P	100	9500	2200	E40	U
S150P	150	16750	2200	E40	U
S250P	250	31750	2200	E40	U
S400P	400	55000	2200	E40	U

SON-E SUPER PLUS DIFFUSED, ELLIPTICAL (WITHOUT IGNITOR)

A range of elliptical phosphor coated lamps providing the benefits of standard SON lamps but with improved lamp life.



S50T	50	3400	2000	E27	U
S70T	70	6000	2000	E27	U
S100T	100	9600	2000	E40	U
S150T	150	15000	2000	E40	U
S250T	250	27500	2000	E40	U
S400T	400	50000	2000	E40	U
S600T	600	75000	2000	E40	U
S1KWT	1000	130000	2000	E40	U

STANDARD SON-T/NAV-T CLEAR, TUBULAR (WITHOUT IGNITOR)

Tubular high pressure sodium lamps with a clear finish, which provide a higher light output than elliptical SON lamps. Ideal for street lighting, commercial and industrial use.



S70TI	70	6000	2000	E27	U
S100TI	100	10500	2000	E40	U
S150TI	150	15750	2000	E40	U
S250TI	250	28500	2000	E40	U
S310TI	310/360	37000/44000	2000	E40	U
S400TI	400	51000	2000	E40	U
S600TI	600	70000	2000	E40	U
S1KWTI	1000	140000	2000	E40	U

STANDARD SON-T/NAV-T CLEAR, TUBULAR (WITH IGNITOR)

High pressure sodium clear tubular lamps with built-in ignitor.



DISCHARGE LIGHTING

DELUXE SON-T/NAV-T CLEAR, TUBULAR (WITHOUT IGNITOR)

Clear tubular de-luxe SON.



ORDER CODE	WATTS	LUMENS	COLOUR	BASE	BURN
S150DT	150	12500	2000	E40	U
S250DT	250	23000	2000	E40	U
S400DT	400	38000	2000	E40	U

DELUXE SON-T/NAV-T DELUXE CLEAR, TUBULAR (WITH IGNITOR)



S25DTI	250	23000	2200	E40	U
--------	-----	-------	------	-----	---

Obsolete nearest equivalent S250DT

SONP-T/NAV-T SUPER CLEAR, TUBULAR (WITHOUT IGNITOR)

This range of lamps produce up to 20% more lumens with no increase in energy consumption. They maintain 90% of light output over their extremely long life of up to 28,500 hours.



S35PT	35	1800	2000	E27	U
S50PT	50	4500	2000	E27	U
S70PT	70	6600	2000	E27	U
S100PT	100	10000	2000	E40	U
S150PT	150	17500	2000	E40	U
S250PT	250	33000	2000	E40	U
S310PT	310	41000	2000	E40	U
S400PT	400	55750	2000	E40	U
S600PT	600	92000	2000	E40	U

SPECIAL SON-T AGRO CLEAR, TUBULAR



400SONTA	400	50000	2050	E40	U
600SONTA(Obsolete)	600	78000	2050	E40	U

ORDER CODE	WATTS	LUMENS	COLOUR	BASE	BURN
S70EX	70	5800	2000	E27	U
S100EX	100	10000	2000	E40	U
S150EX	150	14000	2000	E40	U
S250EX	250	26000	2000	E40	U
S400EX	400	47000	2000	E40	U

S70EXT	70	6000		E27	U
S100EXT	100	10000		E40	U
S150EXT	150	16000		E40	U
S250EXT	250	28000		E40	U
S400EXT	400	48000		E40	U

S69HMB	70	4600		E27	U
S110HMB	110	8000		E27	U
S210HMB	210	18000		E40	U
S350HMB	350	34500		E40	U

THE SON-H LAMP IS A SODIUM LAMP DESIGNED AS A DIRECT REPLACEMENT FOR MBFU. THE LAMPS MAY BE DIRECTLY EXCHANGED TO PROVIDE A HIGHER LEVEL OF ILLUMINATION AND A SAVING OF 12 - 16% IN POWER CONSUMPTION

S69HMB	Replaces	MB80
S110HMB	Replaces	MB125
S210HMB	Replaces	MB250
S350HMB	Replaces	MB400

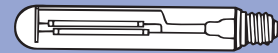
SON EXTRA DIFFUSED, ELLIPTICAL (WITH 2 x ARC TUBE)

New range of high-pressure sodium lamps equipped with a double arc tube, guaranteeing immediate restrike after a power cut and doubling lamp life up to 55000 hours.



SON-EXTRA CLEAR, TUBULAR (WITH 2 x ARC TUBE)

New range of high-pressure sodium lamps equipped with a double arc tube, guaranteeing immediate restrike after a power cut and doubling lamp life up to 55000 hours.



SON-H / SHX (ELLIPTICAL) SODIUM REPLACEMENT for MBFU LAMP TYPES (SELF STARTING DIFFUSED)



DISCHARGE LIGHTING

VIALOX NAV 4Y

(SON 4 YEAR)

Elliptical diffuse without ignitor*

Tubular (clear) without ignitor**



ORDER CODE	WATTS	LUMENS	COLOUR	BASE	BURN
S504Y*	50	3500	2100	E27	U
S704Y*	70	5600	2100	E27	U
S1504Y*	150	14000	2100	E40	U
S2504Y*	250	25000	2100	E40	U
S4004Y*	400	47000	2100	E40	U
S70T4Y**	70	5600	2100	E27	U
S150T4Y**	150	14000	2100	E40	U
S250T4Y**	250	25000	2100	E40	U
S400T4Y**	400	47000	2100	E40	U

SON-R/NAV-R REFLECTOR (WITHOUT IGNITOR)



S70R	70	4000	1900	E27	U
------	----	------	------	-----	---

SON-R / NAV-R REFLECTOR (WITH IGNITOR)



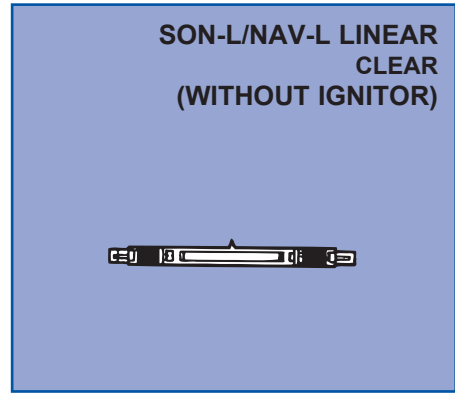
S250R	250	25500	2000	E40	U
S310R	310	31500/37000	2000	E40	U
S400R	400	43000	2000	E40	U

STANDARD SON-TS/NAV-TS LINEAR CLEAR (WITHOUT IGNITOR)

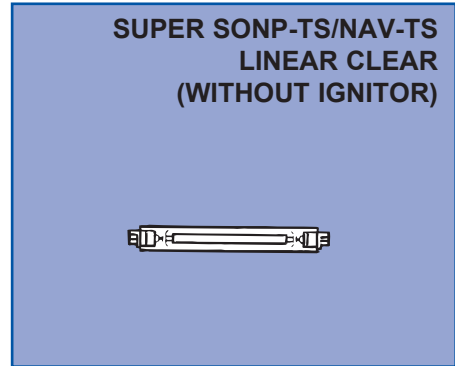


S250TS	250	25500	2000	FC2	H20
S400TS	400	48000	2000	FC2	H20

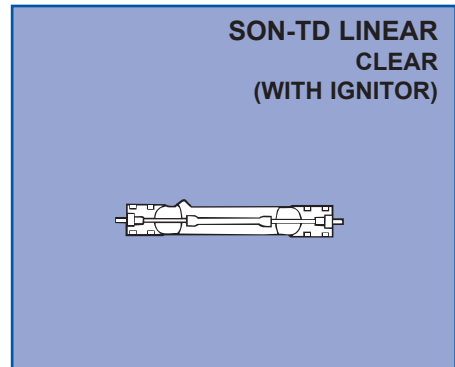
ORDER CODE	WATTS	LUMENS	COLOUR	BASE	BURN
S250L(<i>Obsolete</i>)	250	29000	2000	R12.5s	H20
S400L(<i>Obsolete</i>)	400	51000	2000	R12.5s	H20



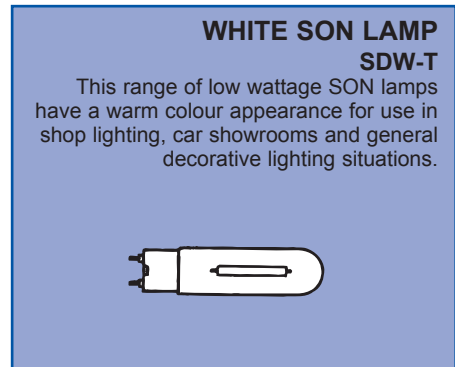
S70TS	70	4000	1900	R7S	H45
S150TS	150	17500	1900	R7S-24	H45



S250TD	250	26000	2000	Rx7s	HOR±20°
LU400/TD	400	48000	2000	Rx7s	HOR±20°
LU1000/TD	1000	137500	2000	Rx7s	HOR±20°

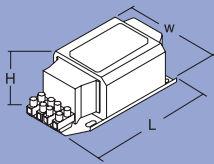


35SDWT	35		2500	PG12/1	U
50SDWT	50		2500	PG12/1	U
100SDWT	100		2500	PG12/1	U



Venture's ownership of the PARMAR brand of control gear enables us to integrate the development of lamps, ballasts and ignitors into complete systems suitable for virtually any application.

**METAL HALIDE BALLAST
LOW WATTAGE E27**

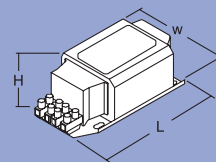


HSZ, HMZ

ORDER CODE	VOLTS	Hz	DIM'S L x W x H	IGNITOR	CAPACITOR
50 WATT SERIES					
HSZ050235	230	50	100 x 66 x 46mm	PXE100255	KPC802255
HSZ050245	240	50	100 x 66 x 46mm	PXE100255	KPC802255
HSZ05322245	220/230/240	50	100 x 66 x 46mm	PXE100255	KPC802255
HSZ05322645	220/230/240	60	100 x 66 x 46mm	PXE100255	KPC602255
70 WATT SERIES					
HSZ070235	230	50	118 x 66 x 46mm	PXE100255	KPC10225
HSZ070245	240	50	118 x 66 x 46mm	PXE100255	KPC10225
HSZ07322245	220/230/240	50	118 x 66 x 46mm	PXE100255	KPC10225
HSZ07322645	220/230/240	60	118 x 66 x 46mm	PXE100255	KPC802255
100 WATT SERIES					
HSZ100235	230	50	128 x 66 x 46mm	PXE100255	KPC122255
HSZ100245	240	50	128 x 66 x 46mm	PXE100255	KPC122255
HSZ10322245	220/230/240	50	128 x 66 x 46mm	PXE100255	KPC122255
HSZ10322645	220/230/240	60	128 x 66 x 46mm	PXE100255	KPC102255
150 WATT SERIES					
HSZ160235	230	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ160245	240	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ16322245	220/230/240	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ16322645	220/230/240	60	135 x 66 x 46mm	PXE100255	KPC182255
175 WATT SERIES					
HMZ175235	230	50	137 x 66 x 46mm	PAE400255	KPC122255
HMZ175245	240	50	137 x 66 x 46mm	PAE400255	KPC122255
HMZ17822245	220/230/240	50	137 x 66 x 46mm	PAE400255	KPC122255
HMZ17822645	220/230/240	60	137 x 66 x 46mm	PAE400255	KPC102255

ORDER CODE	VOLTS	Hz	DIM'S L x W x H	IGNITOR	CAPACITOR
250 WATT SERIES					
HMZ250235	230	50	158 x 66 x 46mm	PAE400255	KPC202255
HMZ250245	240	50	158 x 66 x 46mm	PAE400255	KPC202255
HMZ25322245	220/230/240	50	158 x 66 x 46mm	PAE400255	KPC202255
HMZ25322645	220/230/240	60	158 x 66 x 46mm	PAE400255	KPC182255
400 WATT SERIES					
JHV410235	230	50	120 x 104 x 46mm	PAE400255	KPC252255
JHV410245	240	50	120 x 104 x 46mm	PAE400255	KPC252255
JHV41322245	220/230/240	50	120 x 104 x 46mm	PAE400255	KPC252255
JHV41322645	220/230/240	60	120 x 104 x 46mm	PAE400255	KPC202255
450 WATT SERIES					
JHV450235	230	50	120 x 104 x 81mm	PAE400255	KPC300255
JHV450245	240	50	120 x 104 x 81mm	PAE400255	KPC300255
JHV452232	230/240	50	120 x 104 x 81mm	PAE400255/PS450W245	KPC300255
JHV45322245	220/230/240	50	120 x 104 x 81mm	PAE400255/PS450W245	KPC300255
JHV45322645	220/230/240	60	120 x 104 x 81mm	PAE400255/PS450W245	KPC252255

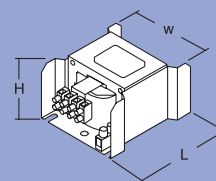
**METAL HALIDE BALLAST
HIGH PERFORMANCE**



HMZ

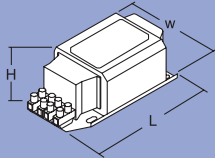
200 WATT SERIES					
HMZ200235	230	50	158 x 66 x 46mm	PAE400255	KPC122255
HMZ200245	240	50	158 x 66 x 46mm	PAE400255	KPC122255
HMZ20322245	220/230/240	50	158 x 66 x 46mm	PAE400255	KPC122255
HMZ20322645	220/230/240	60	158 x 66 x 46mm	PAE400255	KPC102255
JHV202232	230/240	50	106 x 94 x 65mm	PAE400255/PS200W245	KPC102255
JHV20322245	220/230/240	50	106 x 94 x 65mm	PAE400255/PS200W245	KPC102255
JHV20322645	220/230/240	60	106 x 94 x 65mm	PAE400255/PS200W245	KPC102255
350 WATT SERIES					
JHV350235	230	50	120 x 104 x 81mm	PAE400255	KPC202255
JHV350245	240	50	120 x 104 x 81mm	PAE400255	KPC202255
JHV352232	230/240	50	120 x 104 x 81mm	PAE400255/PS350W245	KPC202255
JHV35322245	220/230/240	50	120 x 104 x 81mm	PAE400255/PS350W245	KPC202255
JHV35322645	220/230/240	60	120 x 104 x 81mm	PAE400255/PS350W245	KPC182255

**METAL HALIDE BALLAST
ENERGY SAVING**



JHV

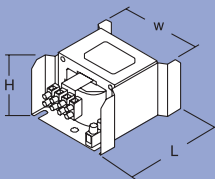
METAL HALIDE BALLAST WHITE LUX PLUS



HSZ, HMZ

ORDER CODE	VOLTS	Hz	DIM'S L x W x H	IGNITOR	CAPACITOR
70 WATT SERIES					
HSZ070235	230	50	118 x 66 x 46mm	PXE070255	KPC10225
HSZ070245	240	50	118 x 66 x 46mm	PXE070255	KPC10225
HSZ072232	230/240	50	118 x 66 x 46mm	PXE070255/PS070W245	KPC10225
HSZ07322245	220/230/240	50	118 x 66 x 46mm	PXE070255/PS070W245	KPC10225
HSZ07322645	220/230/240	60	118 x 66 x 46mm	PXE070255/PS070W245	KPC802255
150 WATT SERIES					
HSZ160235	230	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ160245	240	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ16322245	220/230/240	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ16322645	220/230/240	60	135 x 66 x 46mm	PXE100255	KPC182255
250 WATT SERIES					
JDV260235	230	50	120 x 104 x 81mm	PAE400255	KPC300255
JDV260245	240	50	120 x 104 x 81mm	PAE400255	KPC300255
JDV262232	230/240	50	120 x 104 x 81mm	PAE400255/PS250W245	KPC300255
JDV26322245	220/230/240	50	120 x 104 x 81mm	PAE400255/PS250W245	KPC300255
JDV26322645	220/230/240	60	120 x 104 x 81mm	PAE400255/PS250W245	KPC252255
400 WATT SERIES					
JAV410235	230	50	120 x 104 x 81mm	PAE400255	KPC400255
JAV410245	240	50	120 x 104 x 81mm	PAE400255	KPC400255
JAV412232	230/240	50	120 x 104 x 81mm	PAE400255/PS400W245	KPC400255
JAV41322245	220/230/240	50	120 x 104 x 81mm	PAE400255/PS400W245	KPC400255
JAV41322645	220/230/240	60	120 x 104 x 81mm	PAE400255/PS400W245	KPC400255

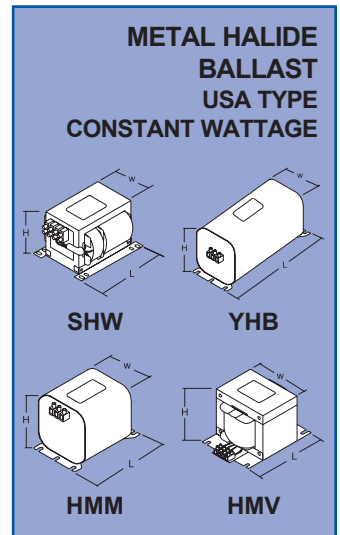
METAL HALIDE BALLAST EURO



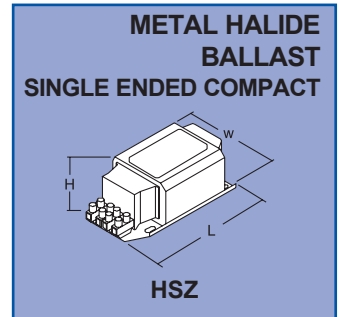
**JDV, JAV
JHV**

175 WATT SERIES					
HMZ175235	230	50	137 x 66 x 46mm	PAE400255/PH400W255	KPC122255
HMZ175245	240	50	137 x 66 x 46mm	PAE400255/PH400W255	KPC122255
HMZ17822245	220/230/240	50	137 x 66 x 46mm	PAE400255/PH400W255	KPC122255
HMZ17822645	220/230/240	60	137 x 66 x 46mm	PAE400255/PH400W255	KPC102255
250 WATT SERIES					
HMZ250235	230	50	158 x 66 x 46mm	PAE400255/PH400W255	KPC202255
HMZ250245	240	50	158 x 66 x 46mm	PAE400255/PH400W255	KPC202255
HMZ25322245	220/230/240	50	158 x 66 x 46mm	PAE400255/PH400W255	KPC202255
HMZ25322645	220/230/240	60	158 x 66 x 46mm	PAE400255/PH400W255	KPC182255
400 WATT SERIES					
JHV410235	230	50	120 x 104 x 46mm	PAE400255/PH400W255	KPC252255
JHV410245	240	50	120 x 104 x 46mm	PAE400255/PH400W255	KPC252255
JHV41322245	220/230/240	50	120 x 104 x 46mm	PAE400255/PH400W255	KPC252255
JHV41322645	220/230/240	60	120 x 104 x 46mm	PAE400255/PH400W255	KPC202255
HMZ400235	230	50	198 x 66 x 46mm	PAE400255/PH400W255	KPC252255
HMZ400245	240	50	198 x 66 x 46mm	PAE400255/PH400W255	KPC252255
HMZ40322245	220/230/240	50	198 x 66 x 46mm	PAE400255/PH400W255	KPC252255
HMZ40322645	220/230/240	60	198 x 66 x 46mm	PAE400255/PH400W255	KPC202255

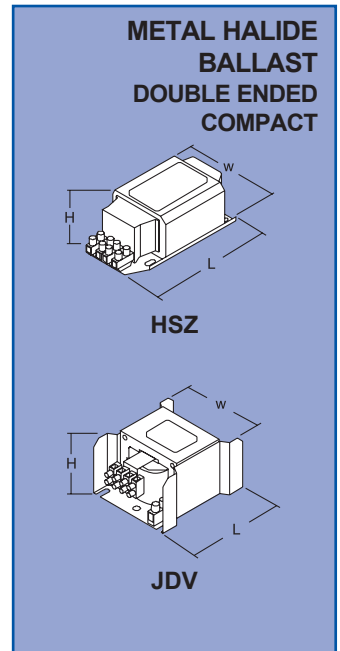
ORDER CODE	VOLTS	Hz	DIM'S L x W x H	IGNITOR	CAPACITOR
175 WATT SERIES					
SHW17822245	220/230/240	50	159 x 95 x 93mm	N/A	KPC124445
250 WATT SERIES					
SHW25322245	220/230/240	50	159 x 95 x 93mm	N/A	KPC184445
400 WATT SERIES					
SHW40322245	220/230/240	50	159 x 118 x 93mm	N/A	KPC254445
1000 WATT SERIES					
YHB04024521	240	50	330 x 110 x 112mm	PBA200485	KPC154445
HMM043383	380/400/415	50	166 x 107 x 109mm	PBA200485	KPC154445
1500 WATT SERIES					
HMV022383	380/400/415	50	215 x 150 x 126mm	PBA200485	2 x KPC154445



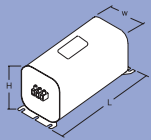
70 WATT SERIES					
HSZ070235	230	50	118 x 66 x 46mm	PXE100255	KPC10225
HSZ070245	240	50	118 x 66 x 46mm	PXE100255	KPC10225
HSZ07322245	220/230/240	50	118 x 66 x 46mm	PXE100255	KPC10225
HSZ07322645	220/230/240	60	118 x 66 x 46mm	PXE100255	KPC802255
150 WATT SERIES					
HSZ160235	230	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ160245	240	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ16322245	220/230/240	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ16322645	220/230/240	60	135 x 66 x 46mm	PXE100255	KPC182255



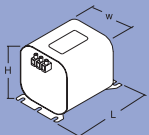
70 WATT SERIES					
HSZ070235	230	50	118 x 66 x 46mm	PXE100255	KPC10225
HSZ070245	240	50	118 x 66 x 46mm	PXE100255	KPC10225
HSZ07322245	220/230/240	50	118 x 66 x 46mm	PXE100255	KPC10225
HSZ07322645	220/230/240	60	118 x 66 x 46mm	PXE100255	KPC802255
150 WATT SERIES					
HSZ160235	230	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ160245	240	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ16322245	220/230/240	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ16322645	220/230/240	60	135 x 66 x 46mm	PXE100255	KPC182255
250 WATT SERIES					
JDV260235	230	50	120 x 104 x 81mm	PAE400255	KPC300255
JDV260245	240	50	120 x 104 x 81mm	PAE400255	KPC300255
JDV262232	230/240	50	120 x 104 x 81mm	PAE400255/PS250W245	KPC300255
JDV26322245	220/230/240	50	120 x 104 x 81mm	PAE400255/PS250W245	KPC300255
JDV26322545	220/230/240	60	120 x 104 x 81mm	PAE400255/PS250W245	KPC300255



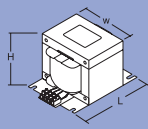
**METAL HALIDE BALLAST
HIGH WATTAGE
DOUBLE ENDED**



YHB



HMM



HMM, HZV

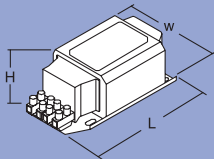
METAL HALIDE BALLAST

PAR 38, 56, 64

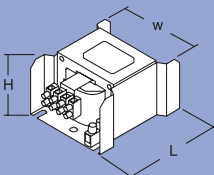
PAR 38 - 70W/100W

PAR 56 - 70W/100W/150W

PAR 64 - 70W/100W/150W/
250W/400W



HSZ, HMZ



JHV

ORDER CODE	VOLTS	Hz	DIM'S L x W x H	IGNITOR	CAPACITOR
------------	-------	----	-----------------	---------	-----------

1000 WATT SERIES

YHB04024521	240	50	330 x 110 x 112mm	PT150K485	KPC154445
HMM043383	380/400/415	50	166 x 107 x 109mm	PT150K485	KPC154445

1500 WATT SERIES

HMV022383	380/400/415	50	215 x 150 x 126mm	PT150K485	2 x KPC154445
-----------	-------------	----	-------------------	-----------	---------------

2000 WATT SERIES

HZV943383	380/400/415	50	215 x 150 x 126mm	PT150K485	KPC204445/KPC254445
-----------	-------------	----	-------------------	-----------	---------------------

70 WATT SERIES

HSZ070235	230	50	118 x 66 x 46mm	PXE100255	KPC102255
HSZ070245	240	50	118 x 66 x 46mm	PXE100255	KPC102255
HSZ07322245	220/230/240	50	118 x 66 x 46mm	PXE100255	KPC102255
HSZ07322645	220/230/240	60	118 x 66 x 46mm	PXE100255	KPC802255

100 WATT SERIES

HSZ100235	230	50	128 x 66 x 46mm	PXE100255	KPC122255
HSZ100245	240	50	128 x 66 x 46mm	PXE100255	KPC122255
HSZ10322245	220/230/240	50	128 x 66 x 46mm	PXE100255	KPC122255
HSZ10322645	220/230/240	60	128 x 66 x 46mm	PXE100255	KPC102255

150 WATT SERIES

HSZ160235	230	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ160245	240	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ16322245	220/230/240	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ16322645	220/230/240	60	135 x 66 x 46mm	PXE100255	KPC182255

250 WATT SERIES

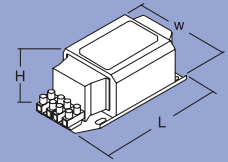
HMZ250235	230	50	158 x 66 x 46mm	PAE400255	KPC202255
HMZ250245	240	50	158 x 66 x 46mm	PAE400255	KPC202255
HMZ25322245	220/230/240	50	158 x 66 x 46mm	PAE400255	KPC202255
HMZ25322645	220/230/240	60	158 x 66 x 46mm	PAE400255	KPC182255

400 WATT SERIES

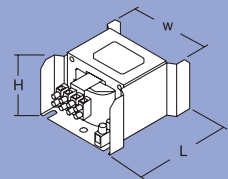
JHV410235	230	50	120 x 104 x 46mm	PAE400255	KPC252255
JHV410245	240	50	120 x 104 x 46mm	PAE400255	KPC252255
JHV41322245	220/230/240	50	120 x 104 x 46mm	PAE400255	KPC252255
JHV41322645	220/230/240	60	120 x 104 x 46mm	PAE400255	KPC202255
HMZ400235	230	50	198 x 66 x 46mm	PAE400255	KPC252255
HMZ400245	240	50	198 x 66 x 46mm	PAE400255	KPC252255
HMZ40322245	220/230/240	50	198 x 66 x 46mm	PAE400255	KPC252255
HMZ40322645	220/230/240	60	198 x 66 x 46mm	PAE400255	KPC202255

ORDER CODE	VOLTS	Hz	DIM'S L x W x H	IGNITOR	CAPACITOR
150 WATT SERIES					
HSZ160235	230V	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ160245	240V	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ16322245	220/230/240V	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ16322645	220/230/240V	60	135 x 66 x 46mm	PXE100255	KPC182255
400 WATT SERIES					
JHV410235	230V	50	120 x 104 x 46mm	PAE400255	KPC252255
JHV410245	240V	50	120 x 104 x 46mm	PAE400255	KPC252255
JHV41322245	220/230/240V	50	120 x 104 x 46mm	PAE400255	KPC252255
JHV41322645	220/230/240V	60	120 x 104 x 46mm	PAE400255	KPC202255
HMZ400235	230V	50	198 x 66 x 46mm	PAE400255	KPC252255
HMZ400245	240V	50	198 x 66 x 46mm	PAE400255	KPC252255
HMZ40322245	220/230/240V	50	198 x 66 x 46mm	PAE400255	KPC252255
HMZ40322645	220/230/240V	60	198 x 66 x 46mm	PAE400255	KPC202255
1000 WATT SERIES					
YHB04024521	240V	50	330 x 110 x 112mm	PBA200485	KPC154445
HMM043383	380/400/415V	50	166 x 107 x 109mm	PBA200485	KPC154445

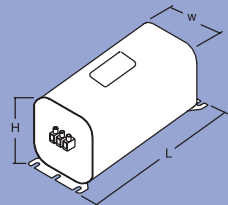
METAL HALIDE BALLAST DESIGNER COLOUR



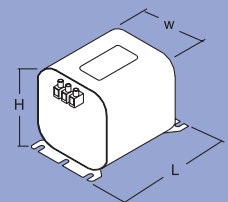
HSZ, HMZ



JHV

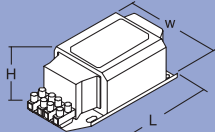


YHB

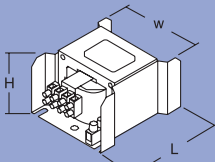


HMM

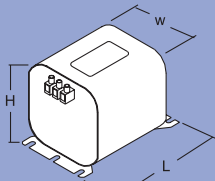
**METAL HALIDE BALLAST
HIGH PRESSURE
SODIUM**



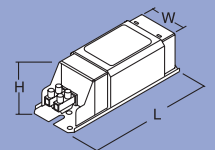
HSZ



JDV



HDN

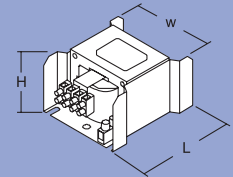


AG

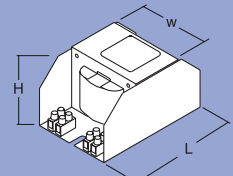
ORDER CODE	VOLTS	Hz	DIM'S L x W x H	IGNITOR	CAPACITOR
50 WATT SERIES					
HSZ050235	230	50	100 x 66 x 46mm	PXE070255	KPC802255
HSZ050245	240	50	100 x 66 x 46mm	PXE070255	KPC802255
HSZ05322245	220/230/240	50	100 x 66 x 46mm	PXE070255	KPC802255
AG053B22245	220/230/240	50	153 x 53 x 46mm	PXE070255	KPC802255
HSZ05322645	220/230/240	60	100 x 66 x 46mm	PXE070255	KPC602255
70 WATT SERIES					
HSZ070235	230	50	118 x 66 x 46mm	PXE070255	KPC10225
HSZ070245	240	50	118 x 66 x 46mm	PXE070255	KPC10225
HSZ072232	230/240	50	118 x 66 x 46mm	PXE070255/PS070W245	KPC10225
HSZ07322245	220/230/240	50	118 x 66 x 46mm	PXE070255/PS070W245	KPC10225
AG073B22245	220/230/240	50	153 x 53 x 46mm	PXE070255/PS070W245	KPC10225
HSZ07322645	220/230/240	60	118 x 66 x 46mm	PXE070255/PS070W245	KPC802255
100 WATT SERIES					
HSZ100235	230	50	128 x 66 x 46mm	PXE100255	KPC122255
HSZ100245	240	50	128 x 66 x 46mm	PXE100255	KPC122255
HSZ10322245	220/230/240	50	128 x 66 x 46mm	PXE100255	KPC122255
HSG10322245	220/230/240	50	173 x 53 x 46mm	PXE100255	KPC122255
HSZ10322645	220/230/240	60	128 x 66 x 46mm	PXE100255	KPC102255
150 WATT SERIES					
HSZ160235	230	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ160245	240	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ16322245	220/230/240	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ16322645	220/230/240	60	135 x 66 x 46mm	PXE100255	KPC182255
250 WATT SERIES					
JDV260235	230	50	120 x 104 x 81mm	PAE400255	KPC300255
JDV260245	240	50	120 x 104 x 81mm	PAE400255	KPC300255
JDV262232	230/240	50	120 x 104 x 81mm	PAE400255/PS250W245	KPC300255
JDV26322245	220/230/240	50	120 x 104 x 81mm	PAE400255/PS250W245	KPC300255
JDV26322645	220/230/240	60	120 x 104 x 81mm	PAE400255/PS250W245	KPC252255
HSZ250235	230	50	198 x 66 x 46mm	PAE400255	KPC300255
HSZ250245	240	50	198 x 66 x 46mm	PAE400255	KPC300255
HSZ25022245	220/230/240	50	198 x 66 x 46mm	PAE400255	KPC300255
HSZ25022645	220/230/240	60	198 x 66 x 46mm	PAE400255	KPC252255
HDN262224	220/240	50	133 x 107 x 109mm	PAE400255/PB404W255	KPC300255
HDN26322245	220/230/240	50	133 x 107 x 109mm	PAE400255/PS250W245	KPC300255

ORDER CODE	VOLTS	Hz	DIM'S L x W x H	IGNITOR	CAPACITOR
400 WATT SERIES					
JAV410235	230	50	120 x 104 x 81mm	PAE400255	KPC400255
JAV410245	240	50	120 x 104 x 81mm	PAE400255	KPC400255
JAV412232	230/240	50	120 x 104 x 81mm	PAE400255/PS400W245	KPC400255
JAV4132245	220/230/240	50	120 x 104 x 81mm	PAE400255/PS400W245	KPC400255
JAV41322645	220/230/240	60	120 x 104 x 81mm	PAE400255/PS400W245	KPC400255
500 WATT SERIES					
HSV412224	220/240	50	150 x 98 x 81mm	PAE400255/PB404W255	KPC400255
HSV41322245	220/230/240	50	150 x 98 x 81mm	PAE400255/PS400W245	KPC400255
600 WATT SERIES					
HSN412224	220/240	50	133 x 107 x 109mm	PAE400255/PB404W255	KPC400255
HSN41322245	220/230/240	50	133 x 107 x 109mm	PAE400255/PS400W245	KPC400255
800 WATT SERIES					
HAV600235	230	50	150 x 108 x 91.5mm	PXE000255	2x KPC300255
HAV600245	240	50	150 x 108 x 91.5mm	PXE000255	2x KPC300255
HAV602232	230/240	50	150 x 108 x 91.5mm	PXE000255/PS600W245	2x KPC300255
HAV60322245	220/230/240	50	150 x 108 x 91.5mm	PXE000255/PS600W245	2x KPC300255
HAV60322645	220/230/240	60	150 x 108 x 91.5mm	PXE000255/PS600W245	KPC500255
1000 WATT SERIES					
HDV000235	230	50	177 x 150 x 126mm	PXE000255	2x KPC500255
HDV000245	240	50	177 x 150 x 126mm	PXE000255	2x KPC500255
HDV002224	220/240	50	177 x 150 x 126mm	PXE000255/PJ000K255	2x KPC500255
HDV00322245	220/230/240	50	177 x 150 x 126mm	PXE000255	2x KPC500255
HDV00322645	220/230/240	60	177 x 150 x 126mm	PXE000255	KPC500255/KPC400255
1000 WATT SERIES					
HSV043383	380/400/415	50	215 X 150 x 126mm	PXE150485	2x KPC154445

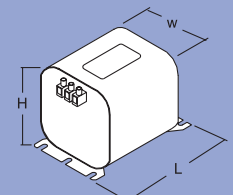
METAL HALIDE BALLAST DESIGNER COLOUR



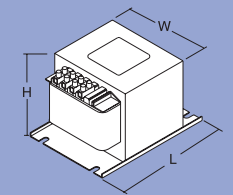
JAV



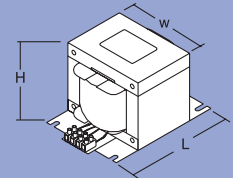
HSV



HSN

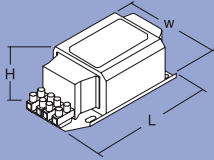


HAV

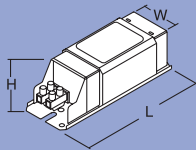


HDV

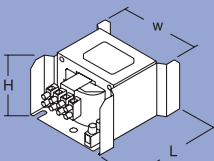
**METAL HALIDE
BALLAST
MERCURY VAPOUR**



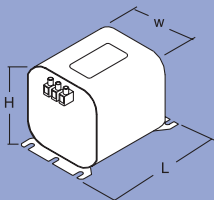
MZ, HMZ



MG



JHV

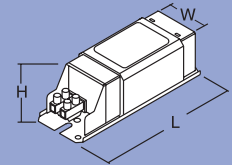


MM, HMM

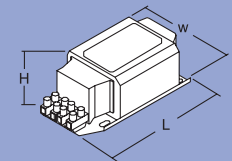
ORDER CODE	VOLTS	Hz	DIM'S L x W x H	IGNITOR	CAPACITOR
50 WATT SERIES					
MZ050K235	230	50	100 x 66 x 46mm	N/A	KPC602255
MZ050K245	240	50	100 x 66 x 46mm	N/A	KPC602255
MZ053K22245	220/230/240	50	100 x 66 x 46mm	N/A	KPC602255
MG053B22245	220/230/240	50	153 x 53 x 46mm	N/A	KPC602255
MZ053K22645	220/230/240	60	100 x 66 x 46mm	N/A	KPC502255
80 WATT SERIES					
MZ080K235	230	50	100 x 66 x 46mm	N/A	KPC802255
MZ080K245	240	50	100 x 66 x 46mm	N/A	KPC802255
MZ083K22245	220/230/240	50	100 x 66 x 46mm	N/A	KPC802255
MG083B22245	220/230/240	50	153 x 53 x 46mm	N/A	KPC802255
MZ083K22645	220/230/240	60	100 x 66 x 46mm	N/A	KPC602255
125 WATT SERIES					
MZ125K235	230	50	118 x 66 x 46mm	N/A	KPC102255
MZ125K245	240	50	118 x 66 x 46mm	N/A	KPC102255
MZ128K22245	220/230/240	50	118 x 66 x 46mm	N/A	KPC102255
MG128B22245	220/230/240	50	150 x 53 x 46mm	N/A	KPC102255
MZ128K22645	220/230/240	60	118 x 66 x 46mm	N/A	KPC802255
250 WATT SERIES					
HMZ250235	230	50	158 x 66 x 46mm	N/A	KPC202255
HMZ250245	240	50	158 x 66 x 46mm	N/A	KPC202255
HMZ25322245	220/230/240	50	158 x 66 x 46mm	N/A	KPC202255
HMZ25322645	220/230/240	60	158 x 66 x 46mm	N/A	KPC182255
400 WATT SERIES					
JHV410235	230	50	120 x 104 x 46mm	N/A	KPC252255
JHV410245	240	50	120 x 104 x 46mm	N/A	KPC252255
JHV41322245	220/230/240	50	120 x 104 x 46mm	N/A	KPC252255
JHV41322645	220/230/240	60	120 x 104 x 46mm	N/A	KPC202255
HMZ400235	230	50	198 x 66 x 46mm	N/A	KPC252255
HMZ400245	240	50	198 x 66 x 46mm	N/A	KPC252255
HMZ40322245	220/230/240	50	198 x 66 x 46mm	N/A	KPC252255
HMZ40022645	220/230/240	60	198 x 66 x 46mm	N/A	KPC202255
700 WATT SERIES					
MM703K22245	220/230/240	50	166 x 107 x 109mm	N/A	KPC300255
1000 WATT SERIES					
MM003K22245	220/230/240	50	166 x 107 x 109mm	N/A	KPC500255
1000 WATT SERIES					
HMM043383	380/400/415	50	166 x 107 x 109mm	N/A	KPC154445

ORDER CODE	VOLTS	Hz	DIM'S L x W x H	IGNITOR	CAPACITOR
35 WATT SERIES					
SG355B245	240	50	53 x 53 x 46mm	PB035W245/PB055W245	KPC802255
SZ355B245	240	50	118 x 66 x 46mm	PB035W245/PB055W245	KPC802255
RSF355245	240	50	118 x 66 x 46mm	Integral	KPC802255
55 WATT SERIES					
SG355B245	240	50	153 x 53 x 46mm	PB055W245	KPC602255
SZ355B245	240	50	118 x 66 x 46mm	PB055W245	KPC602255
RSF355245	240	50	118 x 66 x 46mm	Integral	KPC602255
90 WATT SERIES					
SG090B245	240	50	153 x 53 x 66mm	PB090W245	KPC802255
SZ090K245	240	50	118 x 66 x 46mm	PB090W245	KPC802255
RSL090245	240	50	165 x 76 x 54mm	Integral	KPC802255
135 WATT SERIES					
RSA135245	240	50	224 x 76 x 59mm	Integral	KPC202255
SM135K245	240	50	166 x 107 x 109mm	N/A	KPC154445
SM138K222	220/230/240/250	50	166 x 107 x 109mm	N/A	KPC154445
180 WATT SERIES					
SM135K245	240	50	166 x 107 x 109mm	N/A	KPC154445
SM138K222	220/230/240/250	50	166 x 107 x 109mm	N/A	KPC154445

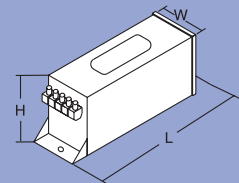
**METAL HALIDE BALLAST
LOW PRESSURE SODIUM**



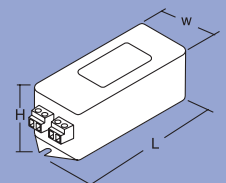
SG



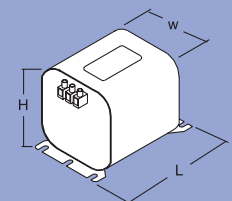
SZ



RSF

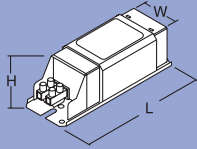


RSL, RSA

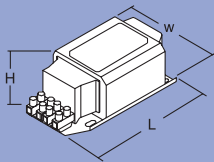


SM

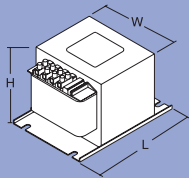
ADDITIONAL METAL HALIDE



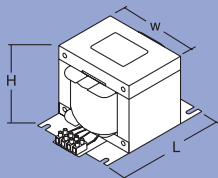
DG, HSG



HSZ, HDZ



HIV



**HDV, HMV
HZV**

ORDER CODE	VOLTS	Hz	DIM'S L x W x H	IGNITOR	CAPACITOR
35 WATT SERIES					
DG038B222B3	220/230/240-TC	50	153x 53 x 66mm	PXE100255	KPC602255
DG038B232B3	230/240/250-TC	50	153x 53 x 66mm	PXE100255	KPC602255
50 WATT SERIES					
HSZ053222B3	220/230/240-TC	50	100 x 66 x 46mm	PXE100255	KPC802255
HSZ053232B3	230/240/250-TC	50	100 x 66 x 46mm	PXE100255	KPC802255
70 WATT SERIES					
HSZ073222B3	220/230/240-TC	50	118 x 66 x 46mm	PXE100255	KPC102255
HSZ073232B3	230/240/250-TC	50	118 x 66 x 46mm	PXE100255	KPC102255
100 WATT SERIES					
HSG103222B3	220/230/240-TC	50	173 x 53 x 46mm	PXE100255	KPC122255
HSG103232B3	230/240/250-TC	50	173 x 53 x 46mm	PXE100255	KPC122255
HSZ103222B3	220/230/240-TC	50	128 x 66 x 46mm	PXE100255	KPC122255
HSZ103232B3	230/240/250-TC	50	128 x 66 x 46mm	PXE100255	KPC122255
150 WATT SERIES					
HSZ163222B3	220/230/240-TC	50	135 x 66 x 46mm	PXE100255	KPC202255
HSZ163232B3	230/240/250-TC	50	135 x 66 x 46mm	PXE100255	KPC202255
HDZ153222B3	220/230/240-TC	50	158 x 66 x 46mm	PXE100255	KPC202255
HDZ153232B3	230/240/250-TC	50	158 x 66 x 46mm	PXE100255	KPC202255
1000 WATT SERIES (8.2A)					
HIV00322245	220/230/240	50	150 x 108 x 91.5mm	PH400W/245KPC400255+KPC300255	
1000 WATT SERIES (9.5A)					
HDV00322245	220/230/240	50	177 x 150 x 126mm	PXE000255	KPC500255+KPC400255
2000 WATT SERIES (16.5A)					
HMV91322245	220/230/240	50	215 x 150 x 126mm	*PH400W245/PBE900255	2 x KPC500255
2000 WATT SERIES (8.8-9.2A)					
HMV943383	380/400/415	50	215 x 150 x 126mm	*PBA200485/PXE150485	2 x KPC204445
2000 WATT SERIES (9.6-10.3A)					
HZV943383	380/400/415	50	215 x 150 x 126mm	*PXE150485/PT150485	KPC254445 +KPC204445
3500 WATT SERIES					
2 x HZV943383	380/400/415	50	215 x 150 x 126mm	PBE350485	KPC254445
<p>Note: 35W through 150W ballasts with TC in the description include an automatic resetting thermal cut out.</p> <p>*Where two choices of ignitor are shown for 2Kw lamps please check ignitor pulse requirements with lamp manufacturers data.</p> <p>PH400W255 - 600V - 900V PBE900255 - 3.0Kv - 4.5Kv PBA200485 - 1.0Kv - 1.5Kv PXE150485 - 4.0Kv - 5.0Kv PT150K485 - 5.0Kv - 6.0Kv</p>					

STANDARD IGNITOR	TIMED CUT-OFF VERSION
PXE070255	PCX070255
PXE100255	PCX100255
PAE400255	PCX400255
PS070W245	PSC70W245
PS200W245	PSC20W245
PS250W245	PSC25W245
PS350W245	PSC35W245
PS400W245	PSC40W245
PS450W245	PSC45W245
PS600W245	PSC60W245
PB404W245	PJ404W245
PB000K255	PJ000K255

TIMED CUT-OFF IGNITORS

LDD500245
 This 4 terminal device is intended for use primarily in security or safety situations where some light is required immediately whenever H.I.D. Lamps are switched on. When the power is initially applied to an installation this device will switch on an auxilliary Tungsten Halogen or General Service Lamp and will keep it alight until the H.I.D. Lamp runs up to approximately 50% of objective brightness. At this time the auxilliary lamp is automatically switched off.

If the power is interrupted for any reason, on its reapplication the auxilliary lamp will immediately relight and remain on until the H.I.D. lamp restrikes and again attains half brightness. The LDD500 is suitable for use with most single phase H.I.D. Lamps operating on lagging circuits, and is able to withstand the high voltage pulses (up to 5Kv) applied to some of these lamps by the ignitor.

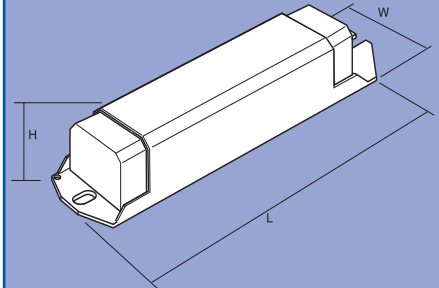
LAMP DETECTING DEVICE



ORDER CODE	DIM'S L x W x H	FIXING CENTRES	LAMP
PC18E011/240/50	234 x 40 x 28mm	220	1 x 18W
PC218E011/240/50	234 x 40 x 28mm	220	2 x 18W
PC316C001/240/50	234 x 40 x 28mm	220	3 x 18W
PC416E011/240/50	354 x 40 x 28mm	340	4 x 18W
PC130C011/240/50	234 x 40 x 28mm	220	1 x 30W
PC230C011/240/50	234 x 40 x 28mm	220	2 x 30W
PC136E011/240/50	234 x 40 x 28mm	220	1 x 36W
PC236E011/240/50	234 x 40 x 28mm	220	2 x 36W
PC158E011/240/50	234 x 40 x 28mm	220	1 x 58W
PC258E011/240/50	234 x 40 x 28mm	220	2 x 58W
PC170C011/240/50	394 x 40 x 28mm	380	1 x 70W
PCC270C011/240/50	394 x 40 x 28mm	380	2 x 70W

**HIGH FREQUENCY
ELECTRONIC BALLASTS
FIXED OUTPUT/NON DIMMABLE**

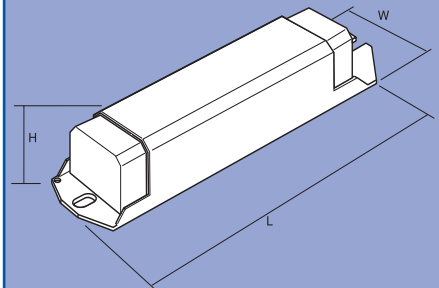
LINEAR FLUORESCENT LAMPS



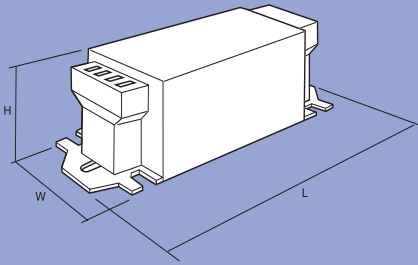
PC116A011/240/50	274 x 40 x 28mm	260	1 x 18W
PC216A011/240/50	354 x 40 x 28mm	340	2 x 18W
PC136A011/240/50	274 x 40 x 28mm	260	1 x 36W
PC236A011/240/50	354 x 40 x 28mm	340	2 x 36W
PC150A011/240/50	274 x 40 x 28mm	260	1 x 50/58W
PC250A011/240/50	354 x 40 x 28mm	340	2 x 50/58W

**HIGH FREQUENCY
ELECTRONIC BALLASTS
DIMMABLE**

LINEAR FLUORESCENT LAMPS

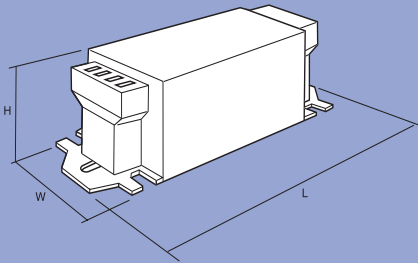


BALLASTS FOR HIGH PRESSURE MERCURY LAMPS (MBFU)



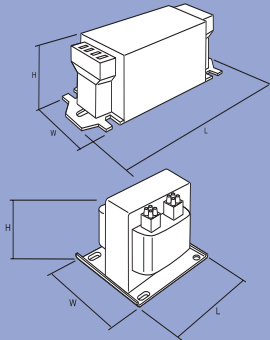
ORDER CODE	DIM'S L x W x H	FIXING CENTRES	LAMP
OMB50/240/50	92 x 65 x 47mm	75-84	50W
OMB80/240/50	92 x 65 x 47mm	75-84	80W
OMB125/240/50	107 x 65 x 47mm	90-99	125W
OMB250/240/50	147 x 65 x 47mm	130-139	250W
OGL400	107 x 94 x 90mm	80	400W
OGL700	134 x 107 x 90mm	120	700W
OGL1000	174 x 107 x 90mm	160	1000W

BALLASTS FOR HIGH PRESSURE SODIUM LAMPS (SON)



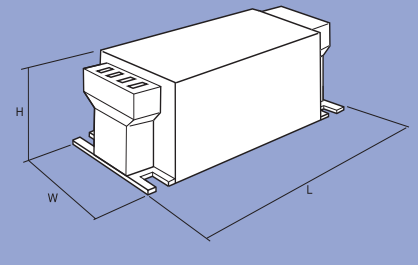
OMBIS35/240/50	97 x 65 x 47mm	80-89	35W
OMBIS50/240/50	97 x 65 x 47mm	80-89	50W
OMBIS70/240/50	107 x 65 x 47mm	90-99	70W
OMBIS100/240/50	117 x 65 x 47mm	100-109	100W
OMBIS150/240/50	147 x 65 x 47mm	130-139	150W
OGLIS250/240/50	94 x 107 x 90mm	80	250W
OGLIS400/240/50	104 x 107 x 90mm	90	400W
OGLIS1000/240/50	194 x 107 x 90mm	180	1000W

BALLASTS FOR METAL HALIDE LAMPS (MBI)



OMBIS35B103W	97 x 65 x 47mm	80-89	35W
OMBIS70B103W	107 x 65 x 47mm	90-99	70W
OMBIS100A103W	117 x 65 x 47mm	100-109	100W
OMBIS150B103W	147 x 65 x 47mm	130-139	150W
OGLIS250A40	97 x 107 x 90mm	80	250W
OGLIS400A50	104 x 107 x 90mm	90	400W
OGLIS1000B140	194 x 107 x 90mm	180	1000W
OGLIS2000B160	214 x 107 x 106mm	200	2000W

BALLASTS FOR LOW PRESSURE SODIUM LAMPS (SOX)



OMBX26/240	75 x 65 x 47mm	60	26W
OMBX35/240	75 x 65 x 47mm	60	35W
OMBX36/240	100 x 65 x 47mm	85	36W
OMBX55/240/50	75 x 65 x 47mm	60	55W

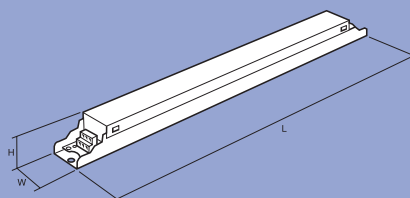
Philips have been at the forefront of lighting for many years as well as producing a wide range of lamps.

Philips are renowned for manufacturing high quality lighting control gear.

Philips offer three options when selecting high-frequency ballasts, therefore avoiding the need for over specification and allowing cost-effectiveness of an installation to be optimized. They also offer a large range of HID control gear to suit every possible application.

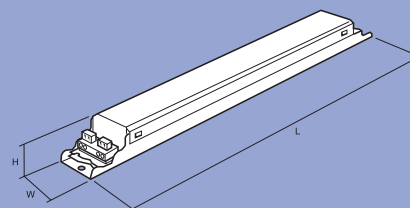
ORDER CODE	DIM'S L x W x H	FIXING CENTRES	LAMP
HFP114TL5	280 x 30 x 28mm	273	1 x 14W
HFP214TL5	360 x 30 x 28mm	350	2 x 14W
HFP314TL5	425 x 39 x 28mm	415	3 x 14W
HFP414TL5	425 x 39 x 28mm	415	4 x 14W
HFP121TL5	280 x 30 x 28mm	273	1 x 21W
HFP221TL5	360 x 30 x 28mm	350	2 x 21W
HFP128TL5	335 x 39 x 28mm	325	1 x 28W
HFP228TL5	425 x 39 x 28mm	415	2 x 28W
HFP135TL5	335 x 39 x 28mm	325	1 x 35W
HFP235TL5	425 x 39 x 28mm	415	2 x 35W
HFP149TL5H0	360 x 30 x 28mm	350	1 x 49W

**ELECTRONIC T5 (TL5)
FIXED OUTPUT (NON-DIMMABLE)**



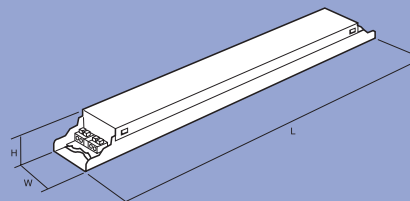
HFR118TLD	335 x 39 x 28mm	325	1 x 18W
HFR218TLD	425 x 39 x 28mm	415	2 x 18W
HFR136TLD	335 x 39 x 28mm	325	1 x 36W
HFR236TLD	425 x 39 x 28mm	415	2 x 36W
HFR158TLD	335 x 39 x 28mm	325	1 x 58W
HFR258TLD	425 x 39 x 28mm	415	2 x 58W

**ELECTRONIC TL'D (T8) HF-R
DIMMABLE BALLASTS**

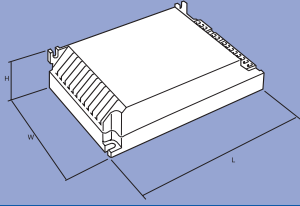


HFR136PLL	335 x 39 x 28mm	325	1 x 36W
HFR236PLL	425 x 39 x 28mm	415	2 x 36W
HFR140PLL	335 x 39 x 28mm	325	1 x 40W
HFR240PLL	425 x 39 x 28mm	415	2 x 40W
HFR155PLL	335 x 39 x 28mm	325	1 x 55W
HFR255PLL	425 x 39 x 28mm	415	2 x 55W

**ELECTRONIC PL-L/BIAX-L HF-R
DIMMABLE BALLASTS**

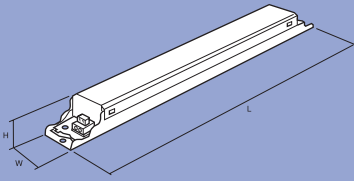


**ELECTRONIC PL-T/PLC HF-R
DIMMABLE BALLASTS**



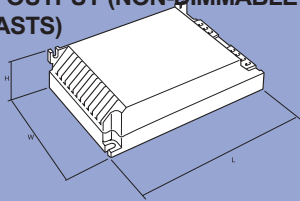
ORDER CODE	DIM'S L x W x H	FIXING CENTRES	LAMP
HFR218PLTC	158 x 102 x 38mm	146	2 x 18W
HFR226PLTC	158 x 102 x 38mm	146	2 x 26W
HFR232PLTC	158 x 102 x 38mm	146	2 x 32W
HFR242PLTC	158 x 102 x 38mm	146	2 x 42W

**ELECTRONIC STANDARD/TLD (T8)
FIXED OUTPUT
(NON-DIMMABLE BALLASTS)**



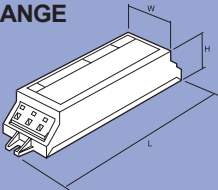
HFP118TLD	335 x 39 x 28mm	325	1 x 18W
HFP218TLD	425 x 39 x 28mm	415	2 x 18W
HFP318TLD	425 x 39 x 28mm	415	3 x 18W
HFP418TLD	425 x 39 x 28mm	415	4 x 18W
HFP136TLD	335 x 39 x 28mm	325	1 x 36W
HFP236TLD	425 x 39 x 28mm	415	2 x 36W
HFP138TLD	335 x 39 x 28mm	325	1 x 38W
HFP238TLD	425 x 39 x 28mm	415	2 x 38W
HFP158TLD	335 x 39 x 28mm	325	1 x 58W
HFP258TLD	425 x 39 x 28mm	415	2 x 58W
HFP170TLD	335 x 39 x 28mm	325	1 x 70W
HFP270TLD	425 x 39 x 28mm	415	2 x 70W

**ELECTRONIC STANDARD
PLT/PLC
FIXED OUTPUT (NON-DIMMABLE
BALLASTS)**



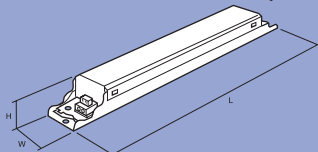
HFP118PLTC	103 x 67 x 30mm	93.5	1 x 18W
HFP218PLTC	123 x 79 x 33mm	111	2 x 18W
HFP126PLTC	103 x 67 x 30mm	93.5	1 x 26W
HFP226PLTC	123 x 79 x 33mm	111	2 x 26W
HFP132PLT	103 x 67 x 30mm	93.5	1 x 32W
HFP142PLT	123 x 79 x 33mm	111	1 x 42W

**ELECTRONIC STANDARD PLC/PLS
FIXED OUTPUT
(NON-DIMMABLE BALLASTS)
EPC111S RANGE**



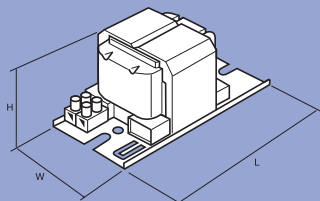
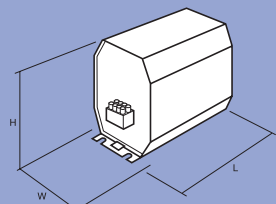
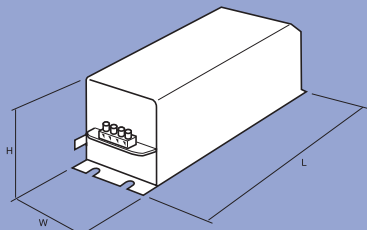
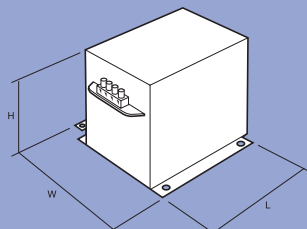
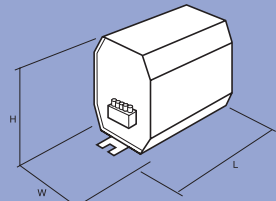
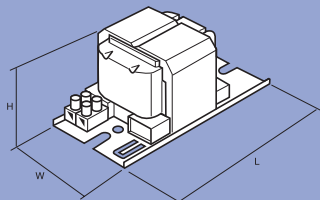
EPC111S/00	158 x 40 x 28mm	148	5-13W
------------	-----------------	-----	-------

**ELECTRONIC STANDARD
TLD(T8) & PLL
FIXED OUTPUT
(NON-DIMMABLE BALLASTS)**



HFB136TLD	280 x 39 x 28mm	265	1 x 36W
HFB236TLD	280 x 39 x 28mm	265	2 x 36W
HFB158TLD	280 x 39 x 28mm	265	1 x 58W
HFB258TLD	280 x 39 x 28mm	265	2 x 58W

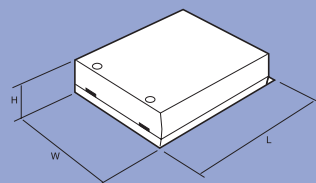
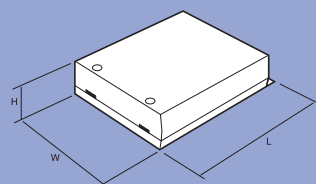
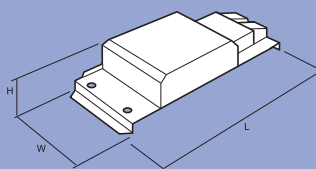
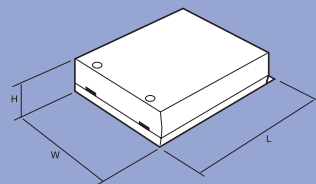
BALLAST FOR HIGH-PRESSURE MERCURY (HPL) AND METAL HALIDE (HPI/CDM) LAMPS



ORDER CODE	DIM'S L x W x H	FIXING CENTRES	LAMP
BHL50L307	117 x 60 x 51mm	98	50W, HPL
BHL50L32	117 x 64 x 52mm	102	50W, HPL
BHL80L307	117 x 60 x 51mm	98	80W, HPL
BHL80L32	117 x 64 x 52mm	102	80W, HPL
BHL125L307	117 x 60 x 51mm	98	125W, HPL
BHL125L32	117 x 64 x 52mm	102	125W, HPL
BHL250L307	133 x 76 x 64mm	117	250W, HPL
BHL250L32	132 x 79 x 65mm	117	250W, HPL/HPIT
BHL400L307	159 x 76 x 64mm	144	400W, HPL
BHL400L32	159 x 79 x 65mm	144	400W, HPL/HPI/BUS
BHL1000L66	235 x 114 x 133mm	220	1000W, HPL/HPI
BMH1800L75	200 x 188 x 169mm	160	1800W, MHD/2000 HPIT
BMH2000L76	340 x 120 x 108mm	324	2000W, HPIT 415V
415BMH2000	340 x 120 x 108mm	324	2000W, MHN-TD 415V
BMH35L307TS	117 x 61 x 52mm	102	35W CDM/MH
BMH35L304ITS	117 x 61 x 52mm	102	35W CDM/MH
BMH70L304ITS	117 x 61 x 52mm	102	70W CDM/MH
BSN150L407ITS	133 x 76 x 64mm	117	150W CDM/MH

ORDER CODE	DIM'S L x W x H	FIXING CENTRES	LAMP
MHC035S	187 x 60 x 36mm	178	35W MH
EMC035S	150 x 112 x 37mm	134	35W MH
EMC0351	303 x 115 x 37mm	289	35W MH
EMC070S	150 x 112 x 37mm	134	70W MH
EMC150S	188 x 112 x 50mm	178	150W MH

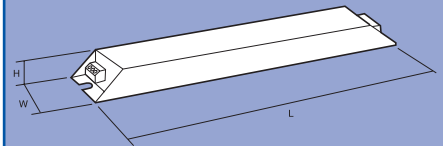
ELECTRONIC METAL HALIDE BALLASTS



Transtar's experience and reputation has been gained from the supply of an extensive range of lighting control gear to a wide range of industries since the 1950's. The environmental conditions in which Transtar's products are proven, range from industrial and commercial applications to the most arduous conditions offshore. The demonstrated reliability of Transtar's electronic ballasts for offshore applications secures their position as market leader in the North Sea and confirms the reliability of their electronic technology.

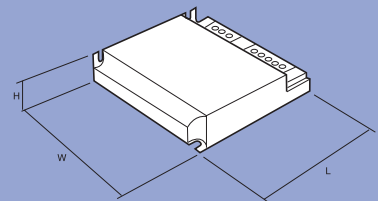
ORDER CODE	DIM'S L x W x H	FIXING CENTRES	LAMP
LINEAR FLUORESCENT LAMPS			
HF118T	374 x 43.5 x 30mm	365	1 x 18W
HF218T	374 x 43.5 x 30mm	365	2 x 18W
HF318T	374 x 43.5 x 30mm	365	3 x 18W
HF418T	374 x 43.5 x 30mm	365	4 x 18W
HF136T	374 x 43.5 x 30mm	365	1 x 36W
HF236T	374 x 43.5 x 30mm	365	2 x 36W
HF336T	374 x 43.5 x 30mm	365	3 x 36W
HF158T	374 x 43.5 x 30mm	365	1 x 58W
HF258T	374 x 43.5 x 30mm	365	2 x 58W
HF170T	374 x 43.5 x 30mm	365	1 x 70W
HF270T	374 x 43.5 x 30mm	365	2 x 70W

**HIGH FREQUENCY ELECTRONIC LITESTAR RANGE
FIXED OUTPUT (NON-DIMMABLE)**

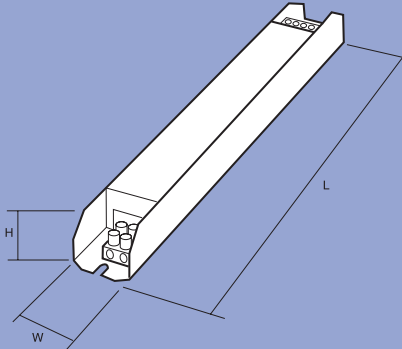


PL LAMPS			
HF118PL	374 x 43.5 x 30mm	365	1 x 18W
HF218PL	374 x 43.5 x 30mm	365	2 x 18W
HF136PL	374 x 43.5 x 30mm	365	1 x 36W
HF236PL	374 x 43.5 x 30mm	365	2 x 36W
HF140PL	374 x 43.5 x 30mm	365	1 x 40W
HF240PL	374 x 43.5 x 30mm	365	2 x 40W
HF155PL	374 x 43.5 x 30mm	365	1 x 55W
HF255PL	374 x 43.5 x 30mm	365	2 x 55W

**HF LITESTAR ELECTRONIC BALLAST
FIXED OUTPUT (NON DIMMABLE)**

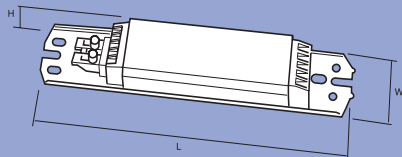


**ELECTRONIC START H.P.F BALLASTS
FIXED OUTPUT, FOR
FLUORESCENT
LAMPS (WITH INTEGRAL
CAPACITOR)**



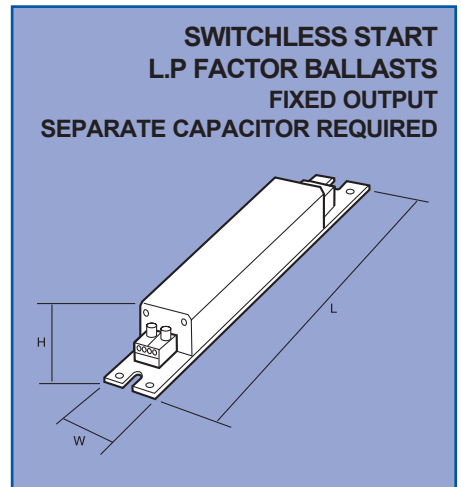
ORDER CODE	DIM'S L x W x H	FIXING CENTRES	LINEAR LAMPS	COMPACT LAMPS
K18TE	360 x 43.5 x 34mm	340	2 x 15W 2 x 18W 2 x 20W	2 x 18W PLL 2 x 24W PLL 2 x 28W 2D
K18E	305 x 43.5 x 34mm	285	1 x 15W 1 x 18W 1 x 20W	1 x 18W 1 x 24W 1 x 26W
K30E	305 x 43.5 x 34mm	285	1 x 30W	1 x 40W (U)
K36E	305 x 43.5 x 34mm	285	1 x 36W 1 x 40W	1 x 40W (Circular) 1 x 38W 2D
K58E	340 x 43.5 x 34mm	320	1 x 58W 1 x 65W	1 x 60W (Circular) 1 x 65W (U)
K70E	360 x 43.5 x 34mm	340	1 x 70W 1 x 75W	
K85XE	360 x 43.5 x 34mm	340	1 x 75W 1 x 85W	
K85E	420 x 43.5 x 34mm	400	1 x 85W	
K100E	420 x 43.5 x 34mm	400	1 x 100W	
K125E	420 x 43.5 x 34mm	400	1 x 100/125W	

SWITCH START CHOKES

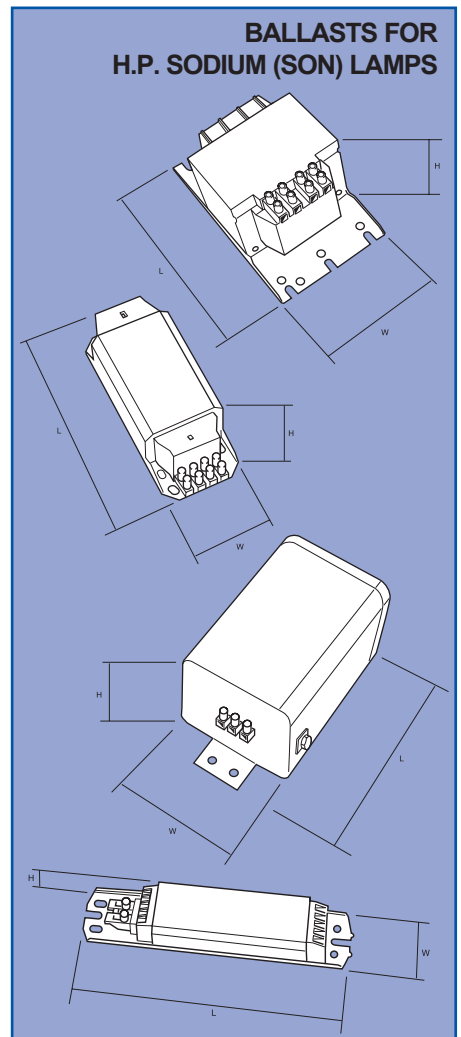


C8	85 x 41 x 31mm	77	8W	
C9	85 x 41 x 31mm	77		7/9/11W
C13	85 x 41 x 31mm	77	13W	2 x 7 or 9W 1 x 10 or 13W
C18	150 x 41 x 31mm	140	1 x 15W 1 x 18W 1 x 20W	1 x 18W 1 x 24W 1 x 26W 1 x 28W
C30	150 x 41 x 31mm	140	1 x 30W	
C36	150 x 41 x 31mm	140	1 x 36W 1 x 38W 1 x 40W 2 x 18/20W	2 x 18W
C58	190 x 41 x 31mm	180	1 x 58W 1 x 65W	1 x 65W (U)
C70	190 x 41 x 31mm	180	1 x 70/75W	
C685	190 x 41 x 31mm	180	1 x 85W	
C100	230 x 41 x 31mm	220	1 x 100W	
C125	230 x 41 x 31mm	220	1 x 125W	

ORDER CODE	DIM'S L x W x H	FIXING CENTRES	LAMP
KL40	180 x 41 x 41mm	180	40W
KL65	235 x 41 x 41mm	230	65W
KL75	235 x 41 x 41mm	230	75W
KL85X	235 x 41 x 41mm	230	85W
KL85	287 x 41 x 41mm	285	85W
KL125	362 x 41 x 41mm	360	125W



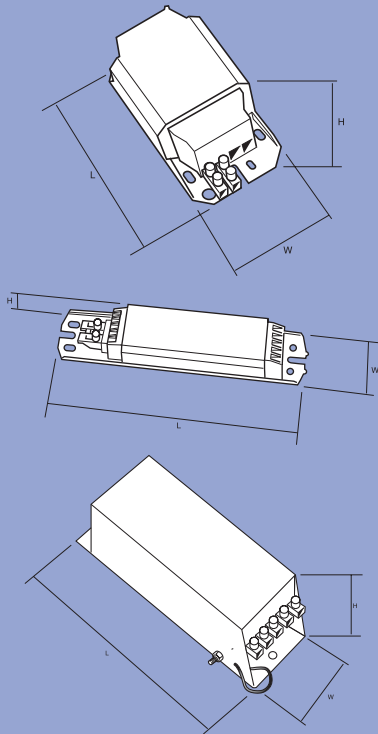
L35H	104 x 66 x 46mm	68	35W
LN35HT	104 x 66 x 46mm	68	35W
LN50H	104 x 66 x 46mm	68	50W
LN50HT	104 x 66 x 46mm	68	50W
LN50S	190 x 41 x 31mm	108	50W
LN70CT	155 x 76 x 75mm	135	70W
LN70H	122 x 66 x 46mm	86	70W
LN70HT	122 x 66 x 46mm	86	70W
LN70S	198 x 41 x 31mm	185	70W
LN50/70H	122 x 66 x 46mm	86	50/70W
LN100CT	155 x 76 x 75mm	135	100W
LN100H	132 x 66 x 46mm	96	100W
LN100HT	132 x 66 x 46mm	96	100W
LN150CT	185 x 76 x 75mm	165	150W
LN150H	162 x 66 x 46mm	126	150W
LN150HT	162 x 66 x 46mm	126	150W
LN150F2T	150 x 99 x 89mm	135	150W
LN250CT	180 x 98 x 107mm	154	250W
LN250F2	95 x 99 x 89mm	80	250W
LN250F2T	150 x 99 x 89mm	135	250W
LN400CT	180 x 98 x 107mm	154	400W
LN400F2	115 x 99 x 89mm	100	400W
LN400F2T	150 x 99 x 89mm	135	400W
LN600F2	150 x 99 x 89mm	135	600W
LN1000F2T/2	150 x 99 x 89mm	135	2 x 1000W



Notes

- ...S denotes 240V 50Hz tapping
- ...H denotes 240V 50Hz tapping
- ...F2 denotes 240V 50Hz tapping
- ...HT denotes 220/240V 50Hz tappings
- ...CT denotes 220/240V 50Hz tappings, Drip proof resin filled.
- ...F2T/2 denotes 220/230/240V 50Hz tappings, 1/2 ballast 2 required.

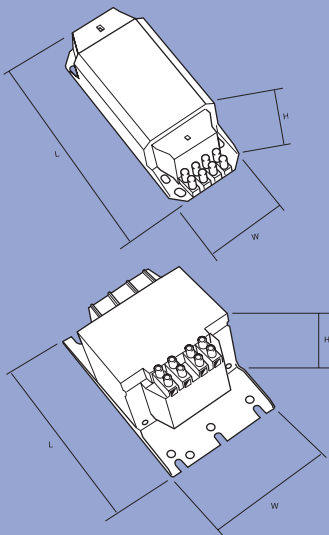
BALLASTS FOR LOW PRESSURE SODIUM (SOX) LAMPS



ORDER CODE	DIM'S L x W x H	FIXING CENTRES	LAMP
LX18H	104 x 66 x 46mm	68	18W
LX26H	104 x 66 x 46mm	68	26W
LX26S	190 x 41 x 31mm	180	26W
LX35H	122 x 66 x 46mm	86	35W
LX35S	190 x 41 x 31mm	180	35W
LX35/55S	190 x 41 x 31mm	180	35/55W
LX35/55CI	160 x 51 x 68mm	146	35/55W
LXH35/55CI	160 x 51 x 68mm	146	35/55W
LX55H	122 x 66 x 46mm	86	55W
LX55S	190 x 41 x 31mm	180	55W
LX90CI	185 x 76 x 75mm	165	90W
LX90H	122 x 66 x 46mm	86	90W
LX135C	190 x 110 x 100mm	175	135/180W

All Sox Ballasts are 240V 50Hz.

BALLASTS FOR METAL HALIDE (MBI) (HQI) LAMPS



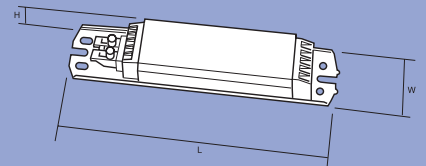
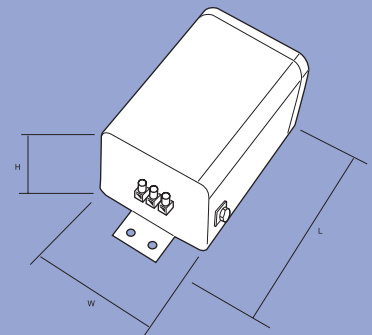
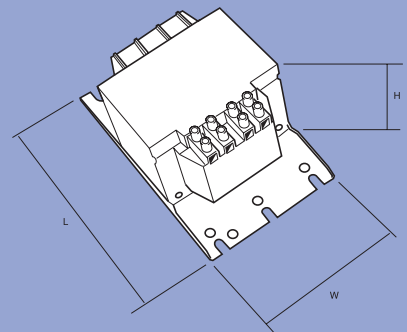
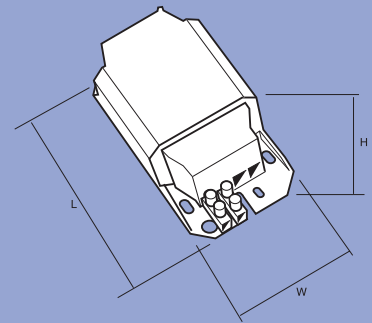
LH35HT	104 x 66 x 46mm	68	35W
LH70HT	122 x 66 x 46mm	86	70W
LH100HT	132 x 66 x 46mm	96	100W
LH150HT	162 x 66 x 46mm	126	150W
LH150F2T	79 x 99 x 89mm	64	150W
LH250F2T	150 x 99 x 89mm	135	250W
LH400F2T	150 x 99 x 89mm	135	400W

ORDER CODE	DIM'S L x W x H	FIXING CENTRES	LAMP
LG50H	104 x 66 x 46mm	68	50W
LG50HT	104 x 66 x 46mm	68	50W
LG50S	190 x 41 x 31mm	180	50W
LG80CT	103 x 76 x 75mm	110	80W
LG80H	104 x 66 x 46mm	68	80W
LG80HT	104 x 60 x 46mm	68	80W
LG80S	190 x 41 x 31mm	180	80W
LG125/80HT	122 x 66 x 46mm	86	80/125W
LG125CT	155 x 76 x 75mm	135	125W
LG125H	122 x 66 x 46mm	86	125W
LG125HT	122 x 66 x 46mm	86	125W
LG125S	230 x 41 x 31mm	220	125W
LG250H	162 x 66 x 46mm	126	250W
LG250CT	150 x 98 x 107mm	130	250W
LG250F2	79 x 99 x 89mm	64	250W
LG250F2T	150 x 99 x 89mm	135	250W
LG400CT	180 x 98 x 107mm	159	400W
LG400F2	95 x 99 x 89mm	80	400W
LG400F2T	150 x 99 89mm	135	400W

Notes: For HID Transtar Ballasts.

- ...S denotes 240V 50Hz tapping, slim choke style.
- ...H denotes 240V 50Hz tapping, compact section.
- ...HT denotes 220/240V 50Hz tappings, compact section.
- ...F2 denotes 240V 50Hz tapping, frame construction.
- ...F2T denotes 220/240V 50Hz tappings, frame construction.
- ...CT denotes 220/240V 50Hz tappings, drip proof resin filled.

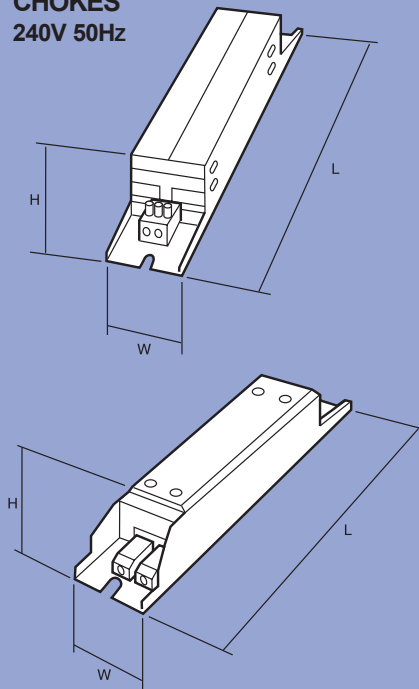
BALLASTS FOR H.P. MERCURY MB/MBF



Atlas (Smart & Brown) has 50 years experience in the lighting industry and has an extensive range of products. With manufacturing facilities in the UK and France, Atlas employs over 400 people.

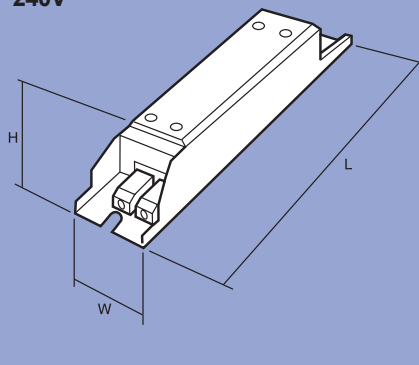
Atlas are at the forefront of developing, understanding and compliance with new legislation and standards which gives their customers absolute confidence in their products.

**STANDARD SWITCH START
CHOKES**
240V 50Hz



ORDER CODE	DIM'S L x W x H	FIXING CENTRES	LAMP
G69588(GCS8)	105 x 42 x 28mm	99	4 - 8W
G69589(GCS13)	105 x 42 x 28mm	99	10 - 13W
G69562(GCS16)	105 x 42 x 28mm	99	16W
G69557(GCS18/20)	150 x 42 x 28mm	140	18 - 20W
G69603(GCS28)	150 x 42 x 28mm	140	28W
G69558(GCS30)	150 x 42 x 28mm	140	30W
G69545(GCS36/40)	150 x 42 x 28mm	140	36 - 40W
G69546(GCS58/65)	190 x 42 x 28mm	180	58 - 65W
G69565(GCS70/75)	190 x 42 x 28mm	180	70 - 75W
G69504(GCU100)	217 x 48 x 40mm	205	100W
G69468(GCU100/125)	185 x 48 x 40mm	165	125W

**SEMI-RESONANT START (SRS)
BALLASTS**
240V

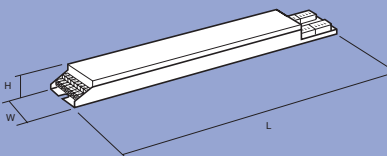
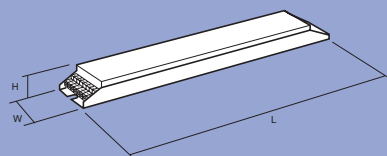
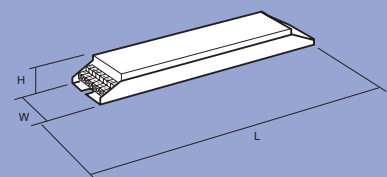
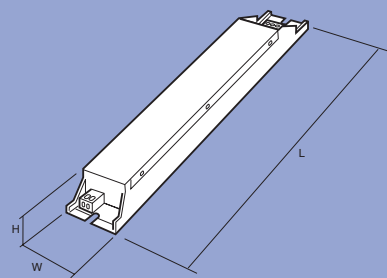


G69264(GBU40)	184 x 36 x 30mm	170	40W
G69612(GBU65/75)	217 x 48 x 40mm	204	65/75W
G69622(GBU685)	217 x 48 x 40mm	204	85W

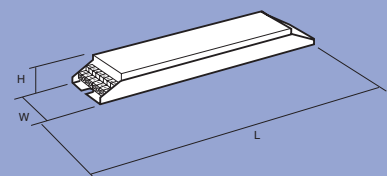
ORDER CODE	DIM'S L x W x H	FIXING CENTRES	LAMP
GM118	229 x 39 x 28mm	220	1 x 18W
GM218	229 x 39 x 28mm	220	2 x 18W
GM318	329 x 39 x 28mm	320	3 x 18W
GM418	329 x 39 x 28mm	320	4 x 18W
GM136	229 x 39 x 28mm	220	1 x 36W
GM236	229 x 39 x 28mm	220	2 x 36W
GM336	424 x 42 x 28mm	414	3 x 36W
GM436	424 x 42 x 28mm	414	4 x 36W
GM158	229 x 39 x 28mm	220	1 x 58W
GM258	229 x 39 x 28mm	220	2 x 58W
GM170	229 x 39 x 28mm	220	1 x 70W
GM270	424 x 42 x 28mm	415	2 x 70W
GK118	282 x 42 x 28mm	273	1 x 18W
GK218	282 x 42 x 28mm	273	2 x 18W
GK318	424 x 42 x 28mm	415	3 x 18W
GK418	424 x 42 x 28mm	415	4 x 18W
GK136	282 x 42 x 28mm	273	1 x 36W
GK236	282 x 42 x 28mm	273	2 x 36W
GK336	424 x 42 x 28mm	415	3 x 36W
GK158	282 x 42 x 28mm	273	1 x 58W
GK258	282 x 42 x 28mm	273	2 x 58W
GK170	282 x 42 x 28mm	273	1 x 70W
GK270	424 x 42 x 28mm	415	2 x 70W

GN136	282 x 42 x 28mm	273	1 x 36W
GN236	282 x 42 x 28mm	273	2 x 36W
GN158	282 x 42 x 28mm	273	1 x 58W
GN258	282 x 42 x 28mm	273	2 x 58W

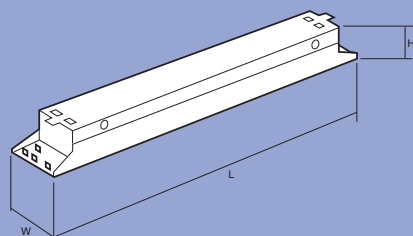
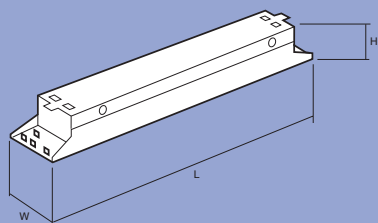
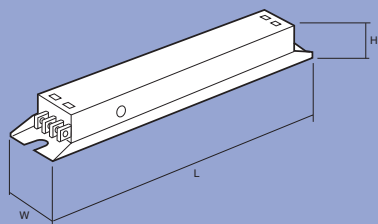
**HIGH FREQUENCY ELECTRONIC BALLASTS
(NON-DIMMABLE), PRE-HEAT
240V 50Hz**



**HIGH FREQUENCY ELECTRONIC BALLASTS
(NON-DIMMABLE)
INSTANT START (NO PRE-HEAT)
240V 50Hz**



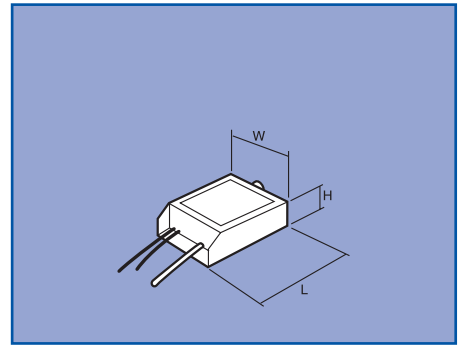
DC INVERTER BALLASTS LOW VOLTAGE DC



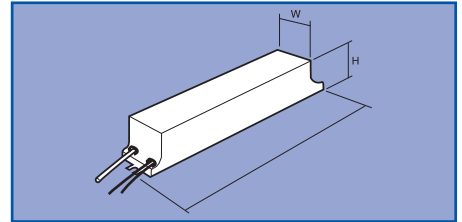
ORDER CODE	DIM'S L x W x H	FIXING CENTRES	VOLTS	LAMP	
				LINEAR	COMPACT
R3730/12	197 x 35 x 29mm	185	12	4-13W	5-11W
R3731/12	197 x 35 x 29mm	185	12	15-20W	16-18W
R2906/12	292 x 47 x 36mm	280	12	18-40W	24-36W
R2903/24	292 x 47 x 36mm	280	24	15-40W (2x18)	24W
R2904/24	292 x 47 x 36mm	280	24	36-65W	40W
R3357/24	292 x 47 x 36mm	280	24	30-40W	24W
R3358/24	292 x 47 x 36mm	280	24	15-65W	40W
R3660/24	197 x 35 x 29mm	185	24	4-13W	5-11W
R3661/24	197 x 35 x 29mm	185	24	15-20W	16-18W
R3662/24	273 x 35 x 29mm	260	24	15-20W	
R3810/24	292 x 47 x 36mm	280	24	18-40W	24W
R3835/24	202 x 47 x 36mm	190	24	18-40W	24W
R3850/50	202 x 47 x 36mm	190	50	4-8W	
R3849/50	202 x 47 x 36mm	190	50	18-75W	18-36W
R3376/110	202 x 47 x 36mm	190	110	4-8W	
R3440/110	292 x 47 x 36mm	280	110	18-75W	18-36W

LOW VOLTAGE ELECTRONIC TRANSFORMERS

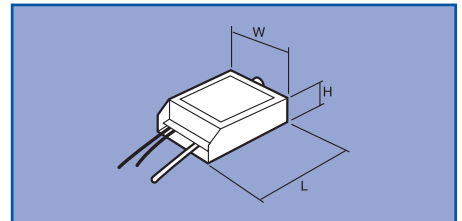
ORDER CODE	DIM'S L x W x H	DESCRIPTION
GVPLD5-C	65 x 50 x 21mm	20-60Va: 240V~/50HZ Down to 12V Dimming Range 15% - 100% Incorporated wire leads (175mm long) Short Circuit Protection Resin Filled - Cool Running Temp.



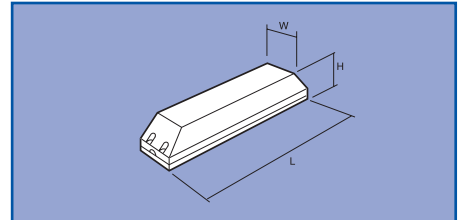
ET60T-3	120 x 35 x 20mm	20-60Va: 240V~/50HZ Down to 11.6V Dimming Range 15% - 100% Incorporated H.T. leads (225mm long) Short Circuit Overload Protection Ambient Temperature: Max 50°C Complete with fixing screws.
---------	-----------------	---



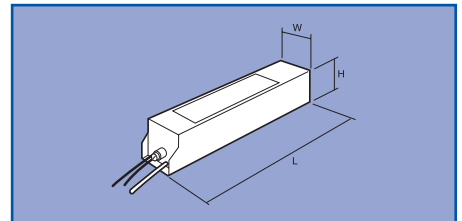
GVPLD6-B	65 x 50 x 21mm	20-105Va: 240V~/50HZ Down to 12V Dimming Range 15% - 100% Incorporated wire leads (175mm long) Short Circuit Protection Resin Filled - Cool Running Temp.
----------	----------------	---



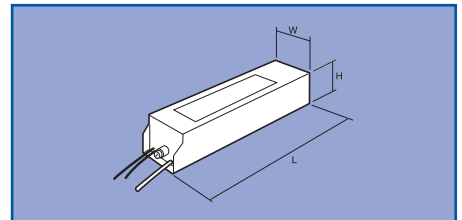
ET105	150 x 50 x 35mm	35-105Va: 230/240V~/50HZ Down to 11.6V Short Circuit Overload Protection Ambient Temperature: Max 40°C No leads supplied.
-------	-----------------	--



GVP210VA	180 x 47 x 32mm	20-210Va: 240V~/50HZ Down to 12V UK Dimmable with Resistance or Inductive dimmer switches Incorporated wire leads (175mm long) Thermal protection with Auto Re-set Resin Filled - Cool Running Temp.
----------	-----------------	--



GVP300VA	183 x 52 x 40mm	20-300Va: 240V~/50HZ Down to 12V UK Dimmable with Resistance or Inductive dimmer switches Incorporated wire leads (175mm long) Thermal protection with Auto Re-set Resin Filled - Cool Running Temp.
----------	-----------------	--



**International
Lamps Ltd**

123

Telephone: 01279 442266/430400 (24 Lines)

Fax: 01279 442222/431188

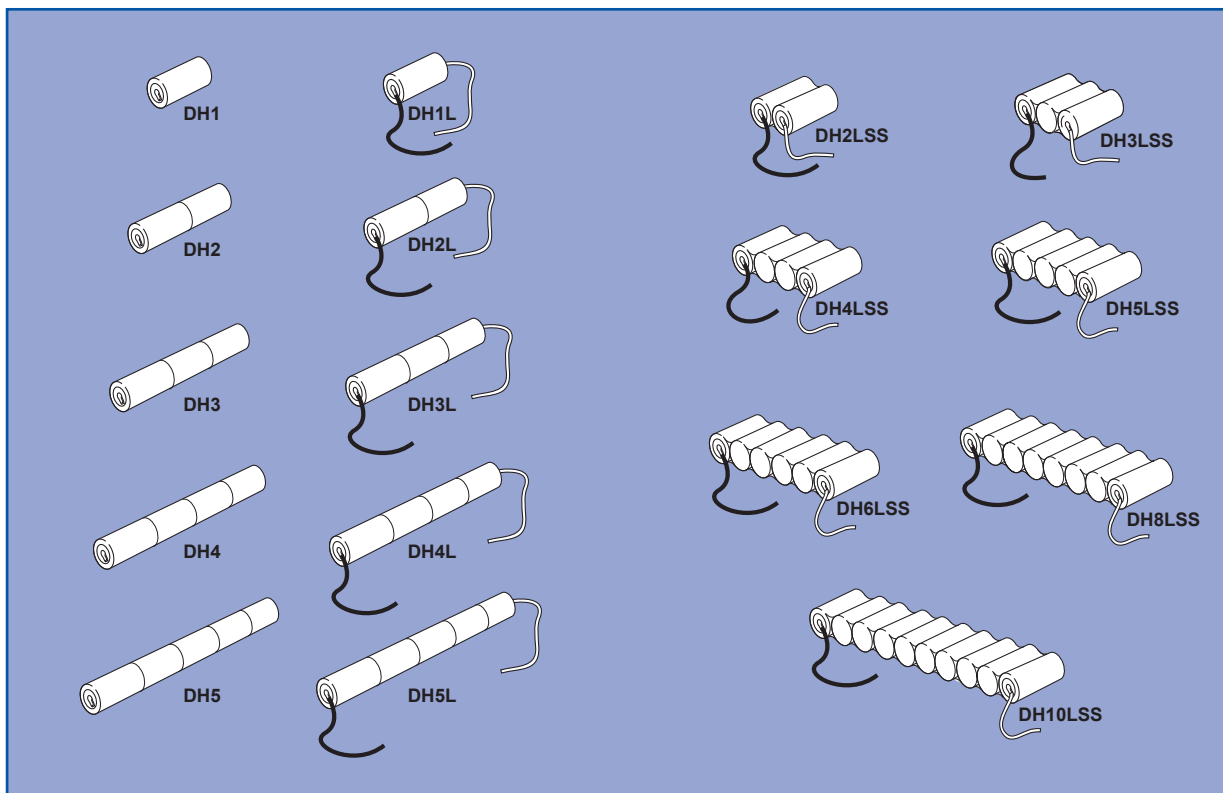
Email: sales@internationallamps.co.uk

Website: www.internationallamps.co.uk

HIGH TEMPERATURE 'D' CELL BATTERY PACKS

A range of high temperature Nickel Cadmium 'D' cells assembled into packs of varying layout and voltage. Typical applications are as replacement packs for emergency lighting and other standby uses where high ambient temperatures may be experienced. The cells are 'Yuasa' branded, type N 4000 DH with a rated capacity of 4Ah. All packs are supplied with either Solder Tags or Flying Leads.

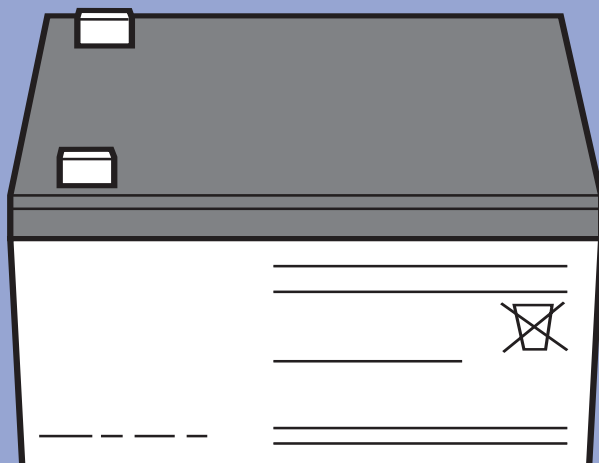
ORDER CODE	DESCRIPTION
DH1	Single D Cell with Solder Tags
DH1L	Single D Cell with Flying Leads
DH2	2 x D Stick with Solder Tags
DH2L	2 x D Stick with Flying Leads
DH3	3 x D Stick with Solder Tags
DH3L	3 x D Stick with Flying Leads
DH4	4 x D Stick with Solder Tags
DH4L	4 x D Stick with Flying Leads
DH5	5 x D Stick with Solder Tags
DH5L	5 x D Stick with Flying Leads
DH2LSS	2 x D Cell Side by Side with Leads
DH3LSS	3 x D Cell Side by Side with Leads
DH4LSS	4 x D Cell Side by Side with Leads
DH5LSS	5 x D Cell Side by Side with Leads
DH6LSS	6 x D Cell Side by Side with Leads
DH8LSS	8 x D Cell Side by Side with Leads
DH10LSS	10 x D Cell Side by Side with Leads



INTERNATIONAL LAMPS/YUASA SEALED ACID BATTERIES

A range of maintenance-free, rechargeable lead acid batteries manufactured by 'Yuasa' offering a wide variety of voltages and capacities. The unique style of construction of these batteries ensure no electrolyte leakage from the case or terminals. These batteries may be used in standby or cyclic applications. 1200 charge/discharge cycles are achievable when employed in cyclic applications.

USE	PREFIX MODEL	NOMINAL VOLTAGE V	NOMINAL CAPACITY @ 20H RATE Ah	LENGTH	WIDTH (All dimensions in mm)	HEIGHT	WEIGHT (Kg) APPROX.
A	NP1-6	6	1.0	51	42.5	54.5	0.25
A	NP1.2-6	6	1.2	97	25	54.5	0.34
A	NP2.8-6	6	2.8	134	34	64	0.60
A	NP4-6	6	4.0	70	47	105.5	0.85
A	NP7-6	6	7.0	151	34	97.5	1.35
A	NP10-6	6	10.0	151	50	97.5	1.93
A	NP12-6	6	12.0	151	50	97.5	2.10
A	NP0.8-12	12	0.8	96	25	61.5	0.35
A	NP1.2-12	12	1.2	97	48	55	0.57
A	NP2.12	12	2.0	150	20	89	0.70
A	NP2.1-12	12	2.1	178	34	64	0.90
A	NP2.3-12	12	2.3	178	34	64	0.94
A	NP2.8-12	12	2.8	134	67	64	1.10
A	NP3.2-12	12	3.2	134	67	64	1.17
A	NP4-12	12	4.0	90	70	106	1.70
A	NP7-12	12	7.0	151	65	98	2.40
A/B	NP12-12	12	12.0	151	98	97.5	4.00
A/B	NP17-12	12	17.0	181	76	167	5.70
A/B	NP18-12	12	18.0	181	75	167	5.75
A/B	NP24-12	12	24.0	166	175	125	8.65
A/B	NP38-12	12	38.0	197	165	170	13.80
B	NP65-12	12	65.0	350	166	174	22.80
B	NPC17-12	12	17.0	181	76	167	6.30
B	NPC24-12	12	24.0	166	175	125	9.00
B	NPC38-12	12	38.0	197	165	170	14.20
A/B	NPL24-12	12	24.0	166	175	125	8.85
A/B	NPL38-12	12	38.0	197	165	170	14.50
B	NPL65-12	12	65.0	350	166	174	23.80

**TYPICAL USE:**

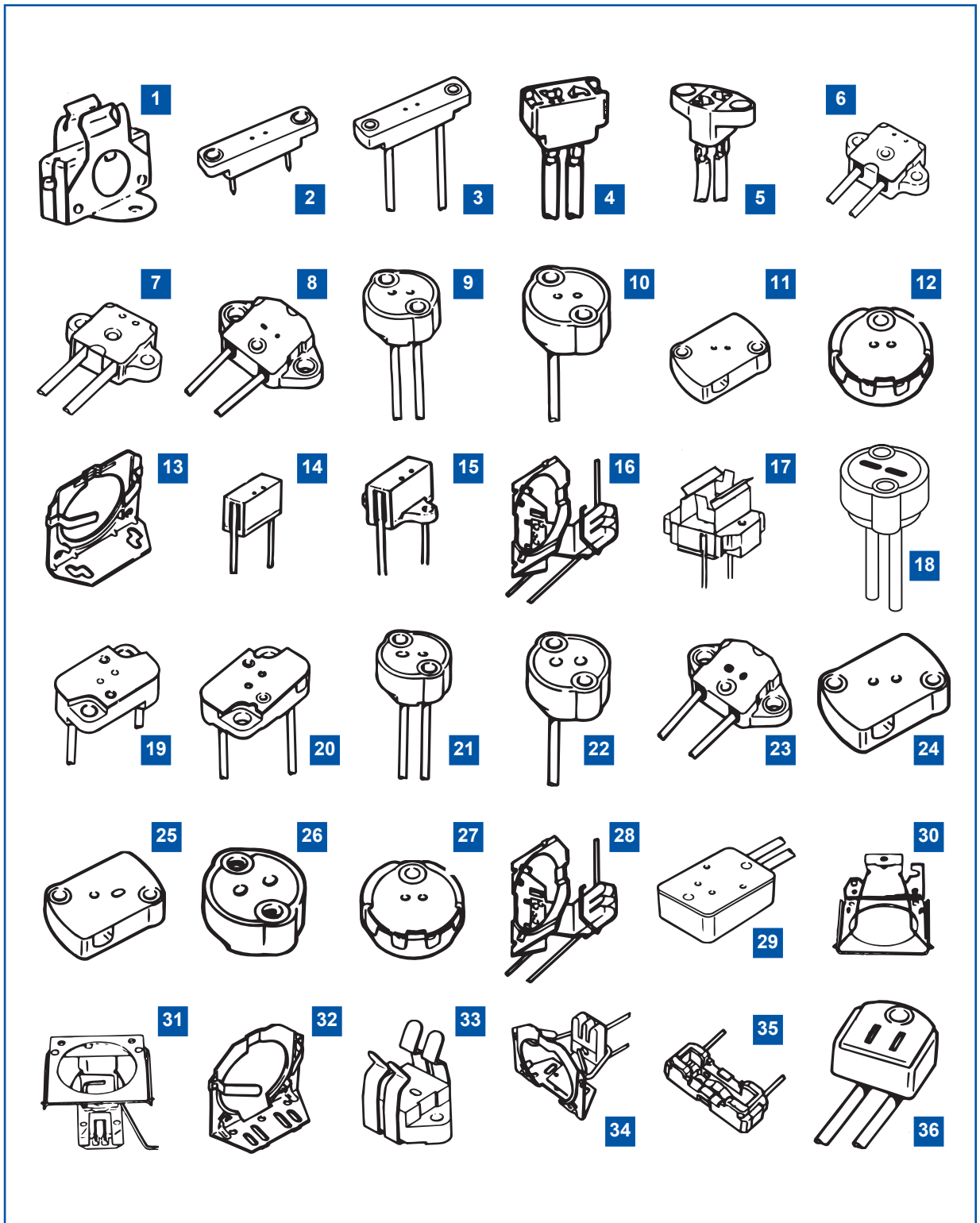
- A:** Alarm Systems, Communication Systems, Power Tools, Emergency Systems, Toys.
- B:** Uninterrupted Power Supplies (UPS), Traction Motor, Central Battery Systems.

PREFIX:

- NPH** High Density Discharge Rate, eg. Motor Starting
- NPL** Long Life Standby, 10 years, eg. UPS
- NP** Standby Batteries, eg. Alarm panel, 8year life, Cyclic Ability.
- NPC** Battery designed specifically for Cyclic Applications, eg. Golf Trolley.

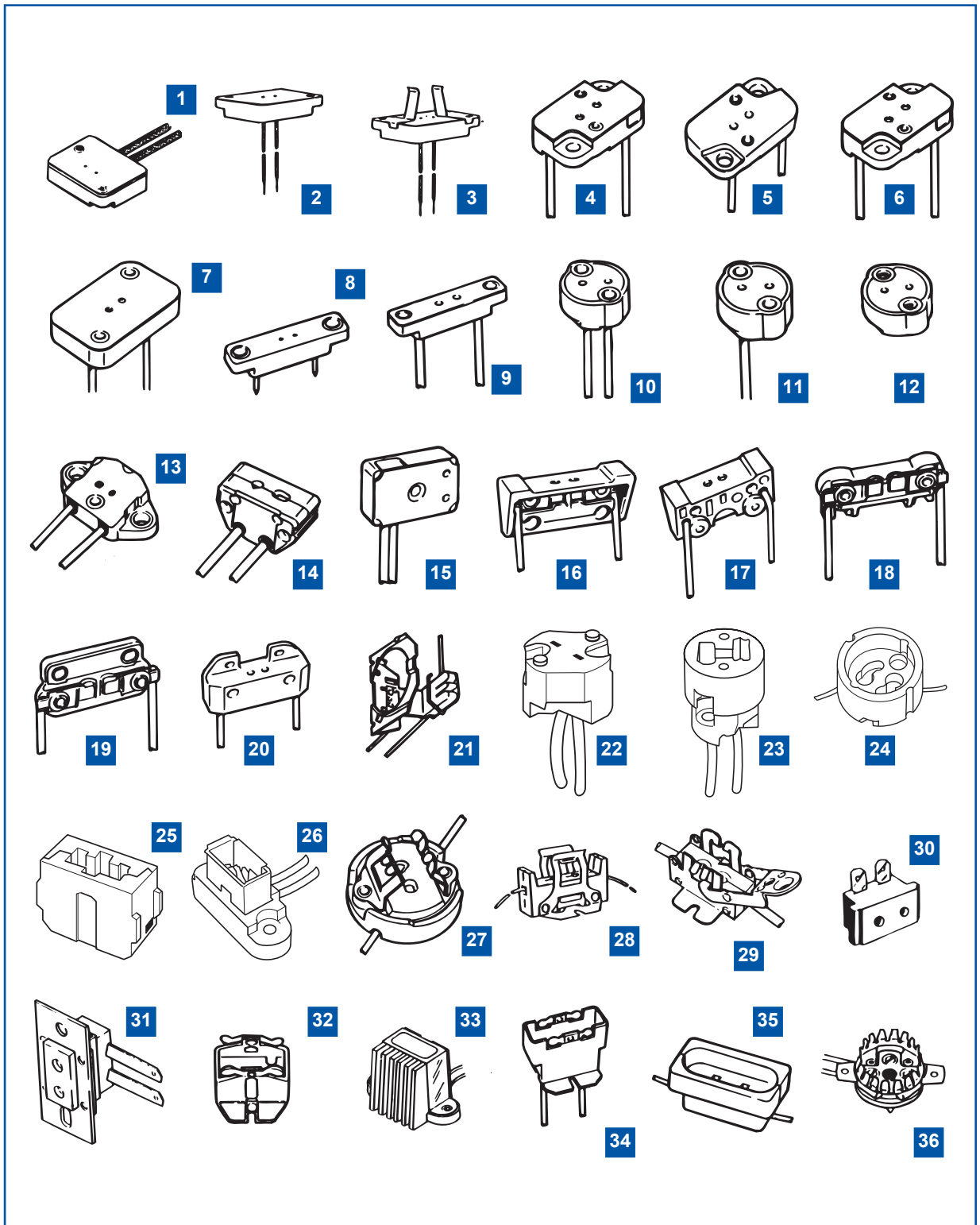
LAMP HOLDERS

TYPE NUMBER	DESCRIPTION	VOLT	CURRENT	TEMP °C	BASE TYPE	FIG. NO.
LAMP HOLDERS G4, GZ4						
GL1123A	Ceramic - with supports	35	6A	230	G4	1
970	Ceramic - Solder Pins	24	4A	230	G4	2
971	Unenclosed Ceramic Wire Terminal	250	6A	230	G4	3
973	Ceramic - Wire Terminal	24	4A	180	G4	4
993	Ceramic with clips/support Wire Terminal	24	4A	180	G4	5
990	Ceramic Wire Terminal	24	10A	230	G4/GZ4	6
992	Plastic Wire Terminal	24	10A	180	G4	7
976	Unenclosed Ceramic - Wire terminal	250	10A	230	G4/GZ4	8
994	Ceramic - Wire Terminal	50	12.5A	230	G4/GZ4	9
984	Ceramic - Wire Terminal + Current Fixing Point	24	12.5A	230	G4/GZ4	10
974	Ceramic - Pillar Terminals	50	12.5A	230	G4/GZ4	11
975	Ceramic - Pillar Terminals	50	12.5A	230	G4/GZ4	12
987	Frame for 35mm Dichroic Lamps					13
GL1211	Ceramic - Wire Terminals	35	10A	180	GZ4	14
GL1212	Ceramic - Wire Terminals Mounting Points	35	10A	180	GZ4	15
LAMP HOLDERS G5.3, GX5.3, GY5.3, G3.9						
GL1210 use 866L	Base, Bracket + Ejector	250	10A	250	GX5.3	28
GL1218	Ceramic - Wire Terminal	35	10A	250	GX5.3	14
GL1219	Ceramic - Wire Terminal	35	10A	250	GX5.3	15
GL1228	Ceramic with supports	35	10A	250	GX5.3	17
878	Unenclosed Ceramic - Wire Terminal	250	12.5A	230	GX5.3	18
884	Unenclosed Ceramic - Wire Terminal	250	12.5A	250	G5.3/GX5.3	19
887	Unenclosed Ceramic - Wire Terminal	250	12.5A	250	G5.3/GX5.3	20
989	Ceramic - Wire Terminal	50	12.5A	230	G5.3/GX5.3/G3.9	21
872	Ceramic - Wire Terminal + Current Fixing Point	24	12.5A	230	GX5.3	22
876	Unenclosed Ceramic - Wire Terminal	250	10A	230	G5.3/GX5.3	23
874	Ceramic - Pillar Terminal	50	12.5A	230	G5.3/GX5.3	24
875	Ceramic - Pillar Terminal	50	12.5A	230	G5.3/GX5.3/GY6.35	25
873	Ceramic - Current Carrying Fixing Point	24	12.5A	230	GX5.3	26
921	Ceramic - Pillar Terminal	50	12.5A	230	G5.3/GX5.3	27
866R	Base, Bracket + Ejector Right Hand	250	10A	230	GX5.3	28
866L	Base, Bracket + Ejector Left Hand	250	10A	230	GX5.3	28
QCX-5	Ceramic - 5"Leads				G5.3/GX5.3/GY5.3	29
QCX-7	Ceramic - 7"Leads				G5.3/GX5.3/GY5.3	29
QCX-12	Ceramic - 12"Leads				G5.3/GX5.3/GY5.3	29
QEX-10	Frame only					30
QEX-11	Frame + Ejector only					30
QHV-1	Ceramic - Base + Frame	300	10A		GY5.3	31
QLV-1	Ceramic - Base + Frame	50	10A		GX5.3	31
860	Frame for 50mm Dichroic Lamps					32
850	Unenclosed Ceramic - Wire Terminal	250	12.5A	250	GU5.3	33
867R	Base, Bracket + Ejector Right Hand	250	10A	230	GY5.3	34
867L	Base, Bracket + Ejector Left Hand	250	10A	230	GY5.3	34
980	Unenclosed Ceramic - Wire Terminal	250	10A	230	G5.3	35
LAMP HOLDERS G5.3-4.8						
885	Ceramic - Wire Terminal	50	10A	230	G5.3-4.8	36



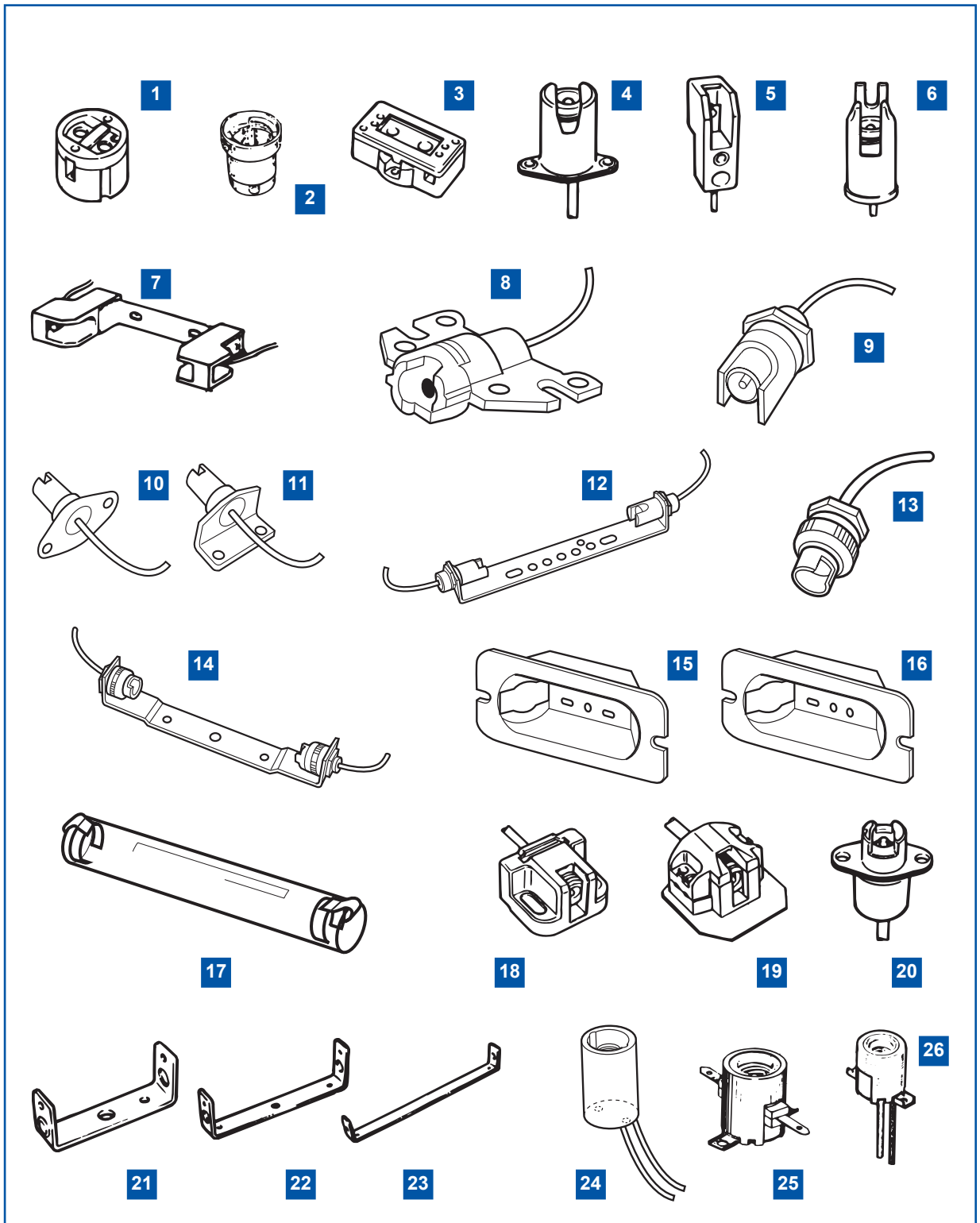
LAMP HOLDERS

TYPE NUMBER	DESCRIPTION	VOLT	CURRENT	TEMP °C	BASE TYPE	FIG. NO.
LAMP HOLDERS G6.35, GX6.35, GY6.35, + GZ6.35						
TP17	Steatite - Wire Terminal	250	10A	225	G6.35	1
GL1079-W	Ceramic - Wire Terminal	35	6A	230	G6.35	2
GL1079-SLW	Ceramic with supports	35	6A	230	G6.35	3
900	Unenclosed - Wire Terminal	250	12.5A	230	G6.35, GZ6.35	4
889	Plastic - Wire terminal	50	12.5A	180	G6.35	5
901	Unenclosed Ceramic - Wire Terminal	250	12.5A	250	G6.35, GY6.35, GZ6.35	6
809	Unenclosed Ceramic - Wire Terminal	250	12.5A	230	G6.35, GY6.35, GZ6.35	7
917	Ceramic - Solder Pins	24	4A	230	G6.35, GY6.35, GZ6.35	8
918	Unenclosed Ceramic - Wire Terminal	250	6A	230	G6.35, GY6.35, GZ6.35	9
912	Ceramic - Wire Terminal	50	12.5A	230	G6.35, GY6.35, GZ6.35	10
914	Ceramic - Wire Term Current Carrying Fixing Point	24	12.5A	230	G6.35, GY6.35	11
913	Ceramic - Current Carrying Fixing Points	24	12.5A	230	G6.35, GY6.35	12
920	Unenclosed Ceramic - Wire Terminal	250	10A	230	G6.35, GY6.35, GZ6.35	13
881	Unenclosed Ceramic - Wire Terminal	250	12.5A	230	G6.35, GZ6.35	14
882	Unenclosed Ceramic - Wire Terminal	24	10A	230	GZ6.35	15
903/1	Unenclosed Ceramic - Wire Terminal	250	10A	180	G6.35, GX6.35	16
909/1	Unenclosed Ceramic - Wire Terminal	250	10A	180	G6.35, GX6.35	17
902/1	Ceramic - Wire Terminal	24	10A	180	G6.35	18
905/1.25g	Ceramic - Wire Terminal	24	10A	180	GY6.35	19
910/1AG	Ceramic - Wire Terminal	24	10A	180	G6.35, GX6.35	20
910/1.25AG	Ceramic - Wire Terminal	24	10A	180	GY6.35	20
865R	Base, Bracket + Ejector Right Hand	250	10A	230	GZ6.35	21
865L	Base, Bracket + Ejector Left Hand	250	10A	230	GZ6.35	21
TP16	Steatite/Mica - Wire Terminal	250	10A	225	GY6.35	1
LAMP HOLDERS G8.5, G9, GZ10						
856	Ceramic - Wire Terminal	750	10A	250	G8.5	22
857	Ceramic - Wire Terminal	750	10A	250	G8.5	23
844	Ceramic - Wire Terminal	250	2A	350	GZ10	24
834	Enclosed Ceramic Push-in Terminal	250	0.5A	250	G9	25
LAMP HOLDERS GY9.5, GX9.5						
968	Ceramic - Wire Terminal	250	12.5A	350	G9.5	26
999	Enclosed Ceramic - with Supports	1000	10A	230	GY9.5, GZ9.5	27
GL1177	Ceramics - with Supports	250	10A	230	GY9.5	28
997	Unenclosed Ceramic - with Support + Ejector	250	10A	230	GY9.5	29
QEW-0	Ceramic	300	10A	250	GY9.5	30
QEW-1	Ceramic + Mounting Bracket	300	10A	250	GY9.5	31
995	Enclosed Aluminium/Ceramic - Wire Terminal	250	10A	230	GX9.5	32
TP220	Steatite/Metal - Wire Terminal	250	10A	250	G9.5	33
LAMP HOLDERS GY16, GX16D, G17q						
996	Unenclosed Aluminium/Ceramic - Wire Terminal	250	20A	230	GY16	34
982	Unenclosed Ceramic - PAR56 - PAR64	250	10A	230	GX16d	35
924	With Mounting Lugs + Wire Terminal				G17q	36



LAMP HOLDERS

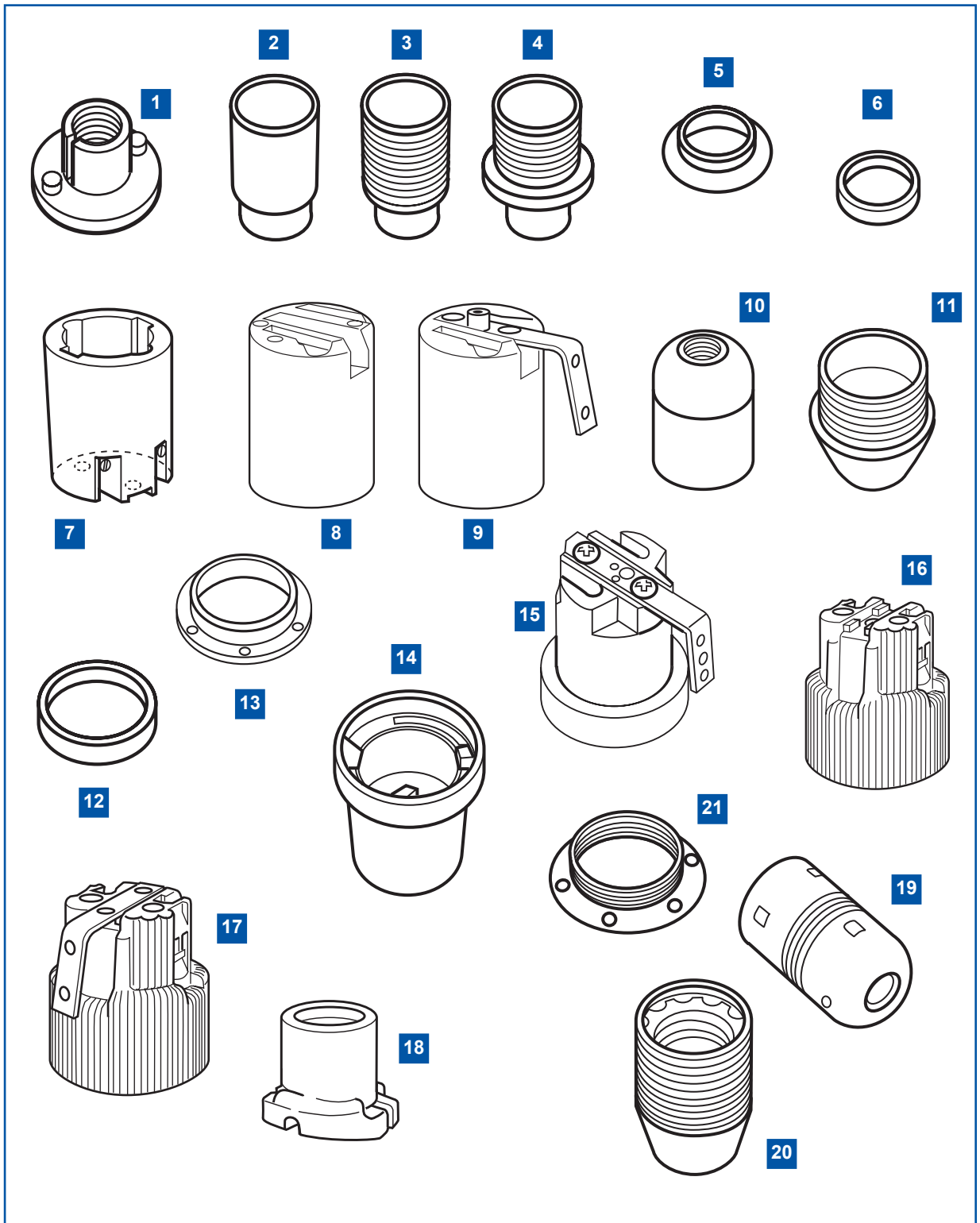
TYPE NUMBER	DESCRIPTION	VOLT	CURRENT	TEMP °C	BASE TYPE	FIG. NO.
LAMP HOLDERS GY22, P28s						
933	Ceramic + Wire Terminal	1000	20A	230	G22	1
321	Ceramic - Medium Prefocus	250	8A	165	P28s	2
LAMP HOLDERS G38						
938	Unenclosed Ceramic - Wire Terminal	1000	50A	230	G38	3
LAMP HOLDERS R7s						
942	Unenclosed Brass - Wire Terminal	250	10A	180	R7s	4
947	Unenclosed Ceramic - Wire Terminal	250	8A	180	R7s	5
947H	Unenclosed Ceramic - Wire Terminal	250	8A	180	R7s	5
953	Enclosed Aluminium With Wire Terminals	250	10A	230	R7s	6
SUL150	Complete Lamp Base Assembly - for K12 etc.	250	8A	180	R7s	7
126830	Unenclosed Ceramic/Metal - Wire Terminal	250	6A	250	R7s	8
141000	Unenclosed Ceramic/Metal Spring - Wire Terminal	250	6A	350	R7s	9
141015	Unenclosed Steatite/Metal Spring - Wire Terminal	250	6A	250	R7s	10
141020	Unenclosed Steatite/Metal Spring - Wire Terminal Angle Bracket	250	6A	250	R7s	11
141005	Complete Spring Lamp Base Assembly For 78mm Lamps	250	6A	350	R7s	12
141010	Complete Spring Lamp Base Assembly For 118mm Lamps	250	6A	350	R7s	12
LAMP HOLDERS R7s & FC2 for Metal Halide Lamps 70, 150, and 250W						
141090	Unenclosed Steatite/Metal - Wire Terminal	250	6A	350	R7s	13
141095	Complete Lamp Base unenclosed Steatite/Metal - Wire Terminal for 70W Lamps	250	6A	350	R7s	14
126866	Complete Lamp Base unenclosed Steatite/Metal - Wire Terminal for 150W Lamps	250	6A	350	R7s	14
LAMP HOLDERS ACCESSORIES for R7s, RX7s, & FC2						
126828	Polished Aluminium Reflector for R7s, 78mm dia					15
126829	Polished Aluminium Reflector for R7s, 115mm dia					16
144800	Protection glass with clips for R7s, 78mm dia, 14 x 30 x 94mm					17
144810	Protection glass with clips for R7s, 118mm dia, 14 x 30 x 125mm					17
144805	Protection glass with clips for R7s, 118mm dia, 14 x 30 x 138mm					17
LAMP HOLDERS R7s, RX7s						
939	Enclosed Ceramic - With Wire Terminals	1000	10A	230	R7s, RX7s	18
940	Enclosed Ceramic - With Wire Terminals	1000	10A	230	R7s, RX7s	19
946	Unenclosed Brass - With Wire Terminals	250	10A	230	R7s, RX7s	20
801	Metal Bracket 74.9mm for above				Use R7s, RX7s	21
802	Metal Bracket 114.2mm for above				Use R7s, RX7s	22
803	Metal Bracket 132mm for above				Use R7s, RX7s	23
LAMP HOLDERS E11						
126880	Enclosed Ceramic - With Wire Terminals	250	2A	210	E11	24
S4	Stealite/Nickel Steel - Solder/Push Terminal	250	8.5A	300	E11	25
S25	Stealite/Nickel Steel - With Leads	250	8.5A	300	E11	26



LAMP HOLDERS

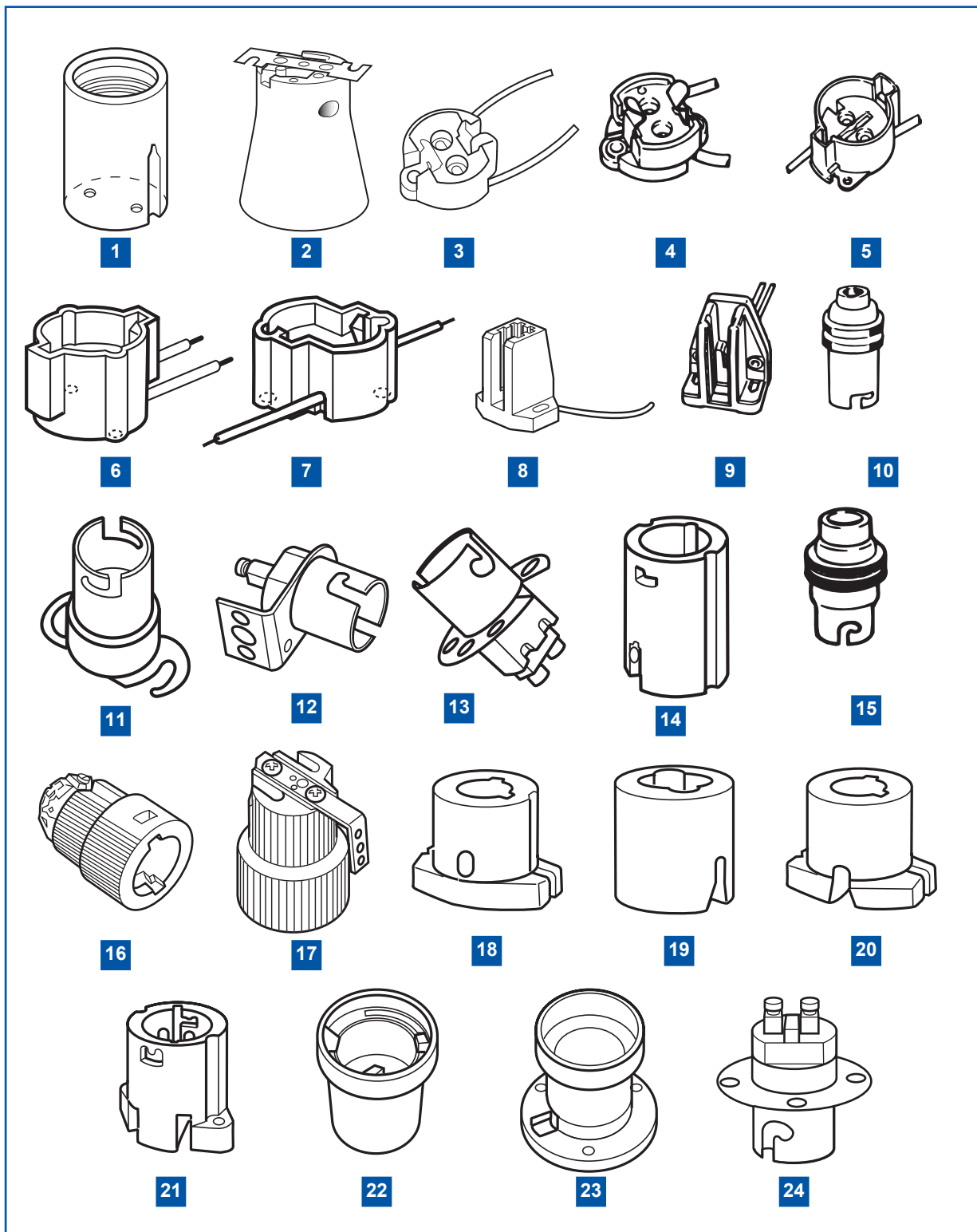
TYPE NUMBER	DESCRIPTION	VOLT	CURRENT	TEMP °C	BASE TYPE	FIG. NO.
LAMP HOLDERS E14						
126978	Bakelite Plain Holder (M10) 3Part				E14	1
140000	Black Thermosetting Resin, Plain			190	E14	2
140005	White Thermosetting Resin, Plain			190	E14	2
140010	Gold Thermosetting Resin, Plain			190	E14	2
140030	Black Thermosetting Resin, Threaded			190	E14	3
140029	White Thermosetting Resin, Threaded			190	E14	3
140031	Gold Thermosetting Resin, Threaded			190	E14	3
140035	Black Thermosetting Resin, Part-threaded			190	E14	4
140040	White Thermosetting Resin, Part-threaded			190	E14	4
140041	Gold Thermosetting Resin, Part-threaded			190	E14	4
Shade carrier ring for above						
140045	Black, 12.5 x 43mm					5
140050	White, 12.5 x 43mm					5
140051	Gold, 12.5 x 43mm					5
140052	Black, 7 x 32mm					6
140053	White, 7 x 32mm					6
140054	Gold, 7 x 32mm					6
126882	Porcelain Holder - Without Leads	250	2A	210	E14	7
29.201.3700.00	Porcelain Holder - Without Leads	250	2A	210	E14	8
29.201.3816.00	Porcelain Holder - With Angled Mounting Brackets	250	2A	210	E14	9
LAMP HOLDERS E27						
140055	Black Thermosetting Resin, Plain			190	E27	10
140057	White Thermosetting Resin, Plain			190	E27	10
140060	Gold Thermosetting Resin, Plain			190	E27	10
140065	Black Thermosetting Resin, Part-threaded			190	E27	11
140070	White Thermosetting Resin, Part-threaded			190	E27	11
140071	Gold Thermosetting Resin, Part-threaded			190	E27	11
140067	Black Thermosetting Resin, Part-threaded + Earth			190	E27	*
140072	White Thermosetting Resin, Part-threaded + Earth			190	E27	*
140073	Gold Thermosetting Resin, Part-threaded + Earth			190	E27	*
Shade carrier ring for above						
140075	Black, 10 x 47mm					12
140080	White, 10 x 47mm					12
140049	Gold, 10 x 47mm					12
140085	Black, 11.5 x 57.5mm					13
140090	White, 11.5 x 57.5mm					13
140091	Gold, 11.5 x 57.5mm					13
140515	Polyester Lamp Holder - Screw Terminals	250	4A	230	E27	14
140520	Polyester Lamp Holder - Screw Terminals with bracket	250	4A	230	E27	15
29.304.3512.00	Porcelain Holder - Without Leads	500	4A	240	E27	16
29.304.3716.00	Porcelain Holder - With Angle Bracket	500	4A	240	E27	17
2383/P3D	Porcelain Holder - With Mounting Flanges	250	4A	240	E27	18
140526	Metal Halogen Lamp Holder - Part threaded with earth connection	250		230	E27	19
140531	Metal Halogen Lamp Holder - Threaded with earth connection	250		230	E27	20
140535	Shade carrier ring for above 17 x 60mm					21

* Product not Illustrated



LAMP HOLDERS

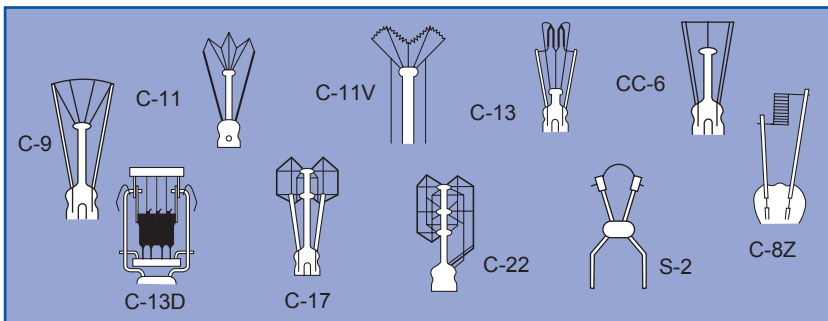
TYPE NUMBER	DESCRIPTION	VOLT	CURRENT	TEMP °C	BASE TYPE	FIG. NO.
LAMP HOLDERS E40						
126886	Porcelain Lamp Holder - Screw Terminal	750	16A	210	E40	1
29.401.3713.00	Porcelain Holder - Screw Terminal with Plate	750	16A	210	E40	2
LAMP HOLDERS G12, PG12						
959-GL1233	Enclosed Ceramic - Wire Terminal	1000	10A	250	G12	3
960	Enclosed Ceramic - Wire Terminal	1000	6A	180	G12	4
965	Enclosed Plastic - Wire Terminal	1000	6A	150	PG12	5
126900	Plastic Wire Terminal	1000	2A	210	PG12	6
126901	Plastic Wire Terminal	1000	2A	210	G12	7
LAMP HOLDERS FC2						
126861	Ceramic - Wire Terminal	1000	8A	250	FC2	8
359	Unenclosed Ceramic - Wire Terminal	1000	10A	230	FC2	9
LAMP HOLDERS Ba20d (BOSCH), Ba20s						
340D	3 Part Brass + Ceramic - Pillar Terminal	250	8A	230	Ba20d	10
126891	Single centre contact base - with fixing lug & earth terminal	42	8A	210	Ba20s	11
126892	Double contact base - with fixing lug & earth terminal	250	8A	210	Ba20d	11
LAMP HOLDERS Ba15d (SBC), B15s (SCC)						
126964	Single centre contact base with lug	24	8A	210	Ba15s	12
126965	Low voltage double contact base with skirt	24	8A	210	Ba15d	13
126902	Mains voltage double contact base - with earth terminal	250	8A	210	Ba15d	13
126870	Porcelain double contact base	250	8A	300	Ba15d	14
234	3 Part Brass + Ceramic - Pillar Terminal	250	2A	135	B15	15
257DF/352	With Flange and Screw Terminal	250	10A	250	B15d	24
334D	Brass Screw Terminal	250	10A	250	B15d	15
LAMP HOLDERS B22d, B22d/3, BY22D						
140540	Porcelain double contact base with screw terminal	250	4A	210	B22d	16
140545	Porcelain double contact base with screw terminal - & Support Bracket	250	4A	210	B22d	17
9595/2	Porcelain Lamp Holder External Fixing	250	4A	210	B22d	18
29.601.3700.00	Porcelain Lamp Holder Internal Fixing	750	16A	210	B22d	19
9595/3	Porcelain Lamp Holder 3-Pin External Fixing	250	4A	210	B22d/3	20
126872	Porcelain double contact base - with Offset Pins, External Fixing	250	4A	210	BY22d	21
LAMP HOLDERS P28s						
126893	Plastic base with screw termination	250	8A		P28s	22
126894	Plastic base with fixing skirt	250	8A		P28s	23



COLOUR CHART FOR FLUORESCENTS

COLOUR TYPE	DESCRIPTION	TUBE TYPE	COLOUR TEMP K	COLOUR Ra	COLOUR	SUFFIX	MNFR
Actinic03	Diazo Printing/Medical	Special	-	-	Special		PH
Actinic 05	For use in fly traps	Standard	-	-	Blacklight		PH
Colour 08	Use Theatrical	Standard	-	-	Blacklight Blue		PH
Actinic 09	Photo Chemical	Special UVA	-	-	Blue		PH
Colour 10	Sunlamps	Special UVA	-	-	Blue		PH
Colour 11	Now Colour 860	Triphosphor	6000	85	Daylight		OS
Colour 12	Now Colour 950	Triphosphor	5400	98	Daylight		OS
Colour 20		Standard	4000	67	Cool White	CW	OS
Colour 23		Standard	3500	56	White	W	OS
Colour 25		Standard	4050	73	Natural	NAT	GE & PH
Colour 29		Standard	2800	51	Warm White	WW	GE & PH
Colour 30		Standard	3000	54	Warm White	WW	OS
Colour 32	Now type 930	Multi Phosphor	3000	93	Warm White	WW	OS
Colour 33	Use 84 for improved efficiency	Standard	4000	62	Cool White	CW	GE & PH
Colour 35	Use 835 for improved efficiency	Standard	3500	58	White	W	GE & PH
Colour 36		Special	3500	92	Deluxe Natural	DLN	GE
Colour 38	Cool Medical applications	Special	4000	89	Kolor-rite		GE
Colour 47	Colour Matching - use 95	Standard	5000	98	Daylight		PH
Colour 54		Standard	6500	76	Daylight	D	GE
Colour 55		Special	6500	93	Northlight	NL	GE
Biolux 72	Biolux-Col/Matching	Special	6500	97	Northlight		OS
Natura-Deluxe 76	Natura De Luxe	Special	3500	75	Emphasising Red		OS
Fluora 77	Fluora	Special			Blue & red for plant growth		OS
Colour 79	For use in eg Butcher shops	Triphosphor	3800	74	Emphasising Red		PH
Colour 82		Triphosphor	2700	85	Very warm White VWW		PH
Colour 83		Triphosphor	3000	85	Warm White	WW	PH
Colour 84		Triphosphor	4000	85	Cool White	CW	PH
Colour 89		Special			Grolux		PH
Colour 93		Multi Phosphor	3000	95	Warm White	WW	PH
Colour 94		Multi Phosphor	3800	95	Cool White	CW	PH
Colour 95		Multi Phosphor	5200	98	Daylight	D	PH
Colour 96		Multi Phosphor	6500	98	Northlight	NL	PH
Colour 129		Standard	3000	53	Warm White	WW	SY
Colour 133		Standard	4300	64	Cool White	CW	SY
Colour 135		Standard	3500	57	White	W	SY
Activa 172		Special	6500	98	Northlight	NL	SY
Gourmet 175	Food products	Special	3700	88	Emphasising Red		SY
Satin 182		Triphosphor	2700	85	Very Warm	VWW	SY
Decor 183		Triphosphor	3000	85	Warm White	WW	SY
Buro 184		Triphosphor	4300	85	Cool White	CW	SY
Studio 186		Triphosphor	6000	85	Daylight	D	SY
Colour 827	Polylux & Lumilux	Triphosphor	2700	85	Very Warm	VWW	GE & OS
Colour 830	Polylux & Lumilux	Triphosphor	3000	85	Warm White	Ww	GE & OS
Colour 835	Polylux & Lumilux	Triphosphor	3500	85	White	W	PH, GE & OS
Colour 840	Polylux & Lumilux	Triphosphor	4000	85	Cool White	CW	GE & OS
Colour 860	Polylux & Lumilux	Triphosphor	6000	85	Daylight	D	GE & OS
Colour 930	Polylux Deluxe & Lumilux Deluxe	Multi Phosphor	3000	95	Very Warm	VWW	GE & OS
Colour 940	Polylux Deluxe & Lumilux Deluxe	Multi Phosphor	4000	95	Cool White	CW	GE & OS
Colour 950	Polylux Deluxe & Lumilux Deluxe	Multi Phosphor	5400	98	Daylight	D	GE & OS

KEY TO MNFR: GE = GENERAL LIGHTING, OS = OSRAM, PH = PHILIPS, SY = SYLVANIA



FILAMENTS

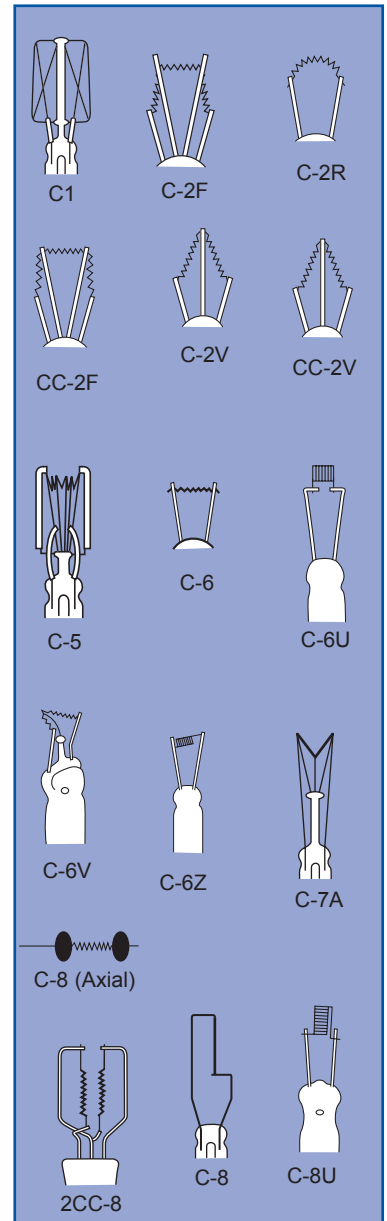
A FILAMENT designation consist of a pre fix letter to indicate whether the wire is straight or coiled and a number to indicate the arrangement of the filament supports.

Prefix letters include :

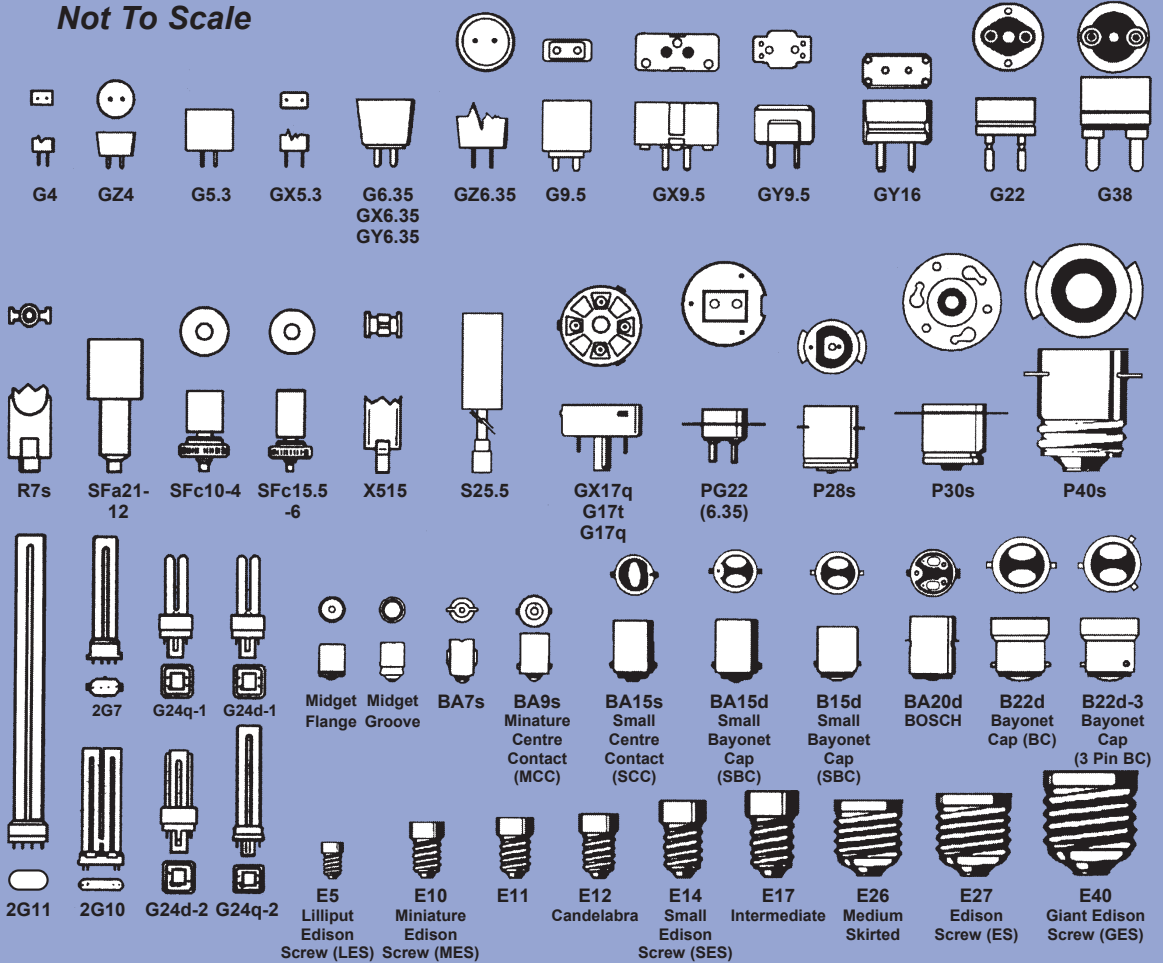
S (straight) - wire is straight or slightly corrugated.

C (coiled) - wire is wound into a helical coil or it may be deeply fluted.

CC (coiled coil) - wire is wound into a helical coil and this coiled wire again wound into a helical coil.



Not To Scale



IEC & ANSI CROSS REFERENCE CHART

IEC	ANSI	IEC	ANSI	IEC	ANSI
E10/12	MINIATURE SCREW	R17d	RECESSED D.C.	G6.35	GLASS TWO-PIN
E12/15	CANDELABRA SCREW	BA15s	BAYONET S.C.	GY6.35	GLASS TWO-PIN
E17/20	INTERMEDIATE SCREW	BA15d	BAYONET D.C.	G9.5	MEDIUM TWO-PIN
E26s	MEDIUM SCREW S.C.	P28s	MOGUL PREFOCUS	GY9.5	PREFOCUS TWO-PIN
E26d	MEDIUM SCREW D.C.	G17t	3-PIN PREFOCUS	GZ9.5	PREFOCUS TWO-PIN
E39	MOGUL SCREW	G17q	4-PIN PREFOCUS	G22	MEDIUM BIPOST
FA8	SINGLE-PIN	GX17q	4-PIN PREFOCUS	G38	MOGUL BIPOST
G5	MINIATURE BIPIN	G5.3	MINIATURE TWO-PIN	R7s	RECESSED S.C.
G13	MEDIUM BIPIN			GX5.3	TWO-PIN REFLECTOR
G20	MOGUL BIPIN			GY5.3	TWO-PIN REFLECTOR

Whilst every care has been taken in preparing the particulars contained in this publication, no responsibility can be assumed for possible inaccuracies or omissions.

INTERNATIONAL LAMPS LIMITED reserve the right to include manufacturers modifications which may be made from time to time.