

Halogen Lamps

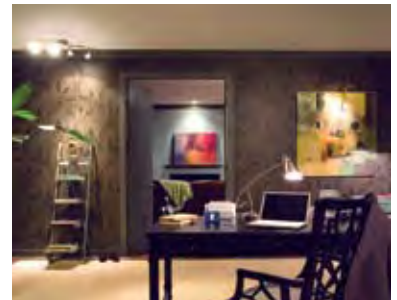
Halogen lamps – clean, bright, white light.
Invented in 1958 by GE, halogen lamps provide a compact, high output, crisp, white light that delivers superior colour reproduction.

By using halogen gas which allows the lamp to burn more brightly without sacrificing life, they are more efficient than incandescent lamps at converting electricity into light, therefore giving more light for less energy and from a smaller physical size.

Why halogen?

- Crisp white light (CCT 2800K+)
- Excellent colour rendering, light close to natural (100% CRI)
- Long lasting bright light – more than 90% lumen maintenance
- Instant (re-)start – full light output immediately after switch on
- Dimmable
- Environmentally friendly technology – mercury and lead free, no electromagnetic emission

Popular for accent, display and general lighting applications in a wide variety of commercial, industrial and residential environments.



Advanced lighting technologies

Premium performance product alternatives for more efficient lighting

For Energy Saving

MR16



upgrade to



Precise MR16 IR




Infra Red MR16 - Energy Saving solution

- Up to 40% energy saving
- 5,000 hours life
- Premium quality light
- Replacement for standard MR16 lamp


Base Watt	New MR16 IR Watt	Saved Watt	Saved Energy Cost through total life
35W	20W	15W	7,5 EUR
50W	35W	15W	7,5 EUR

For Energy Saving


Standard Double Ended Linear
150, 200, 300 and 500W



upgrade to



C energy class Double Ended Linear
100, 130, 200 and 330W




C class Double Ended Linear

- Increased efficiency - C energy class
- More than 30% energy saving
- Retrofit to standard Double Ended Linear
- Full range 100-330W to replace 150-500W standard range


Base Watt	New Watt	Saved Watt	Saved Energy Cost / 1000hrs
150W	100W	50W	5 EUR
200W	130W	70W	7 EUR
300W	200W	100W	10 EUR
500W	330W	170W	17 EUR

For Energy Saving


HaloGLS, HaloCandle,
HaloSpherical, HaloReflector



upgrade to







Energy Efficient Halogen range (up to
C energy class). 18, 28, 42, 70, 100W



The 'new incandescent' lamps

- Exactly same size and appearance as an incandescent lamp
- Provides full light strength at start-up
- 30% energy saving
- Dimmable
- 2,000 hours life
- Environmentally friendly - mercury and lead free
- Excellent colour rendering, light close to natural (100% CRI)
- More than 90% lumen maintenance over life

Base Watt	New Watt				
25W	18W	No	Yes	Yes	No
40W	28W	Yes	Yes	Yes	Yes
60W	42W	Yes	Yes	Yes	Yes
100W	75W	Yes	No	No	Yes
150W	100W	Yes	No	No	No

Halogen Lamps

MR 11 Low Voltage



Standard

Cap: GU4
Wattages: 12-35W
Volts: 12
Beam Spread: 8-26°
Front: Open or Closed
Life: 3,500Hrs
Page: 89



Start

Cap: GU4
Wattages: 20-35W
Volts: 12
Beam Spread: 26°
Front: Closed
Life: 2,000Hrs
Page: 89

MR 16 Low Voltage



MR16 IR

Cap: GU5.3
Wattages: 20 and 35W
Volts: 12
Beam Spread: 24-36°
Life (hrs): 5,000Hrs
Page: 89



Precise™ ConstantColor™

Cap: GU5.3
Wattages: 20-71W
Volts: 12
Beam Spread: 12-55°
Feature: Consistent light quality and exceptional long life
Life: 4,000-6,000Hrs
Page: 89



Precise™ Bright

Cap: GU5.3
Wattages: 20-50W
Volts: 12
Beam Spread: 18-60°
Feature: Outstanding light output in a mid range lamp
Life: 5,000Hrs
Page: 89-90



Start

Cap: GU5.3
Wattages: 20-50W
Volts: 12
Beam Spread: 12-55°
Feature: Budget lamp with reliable GE quality
Life: 2,000Hrs
Page: 90



Alutech™

Cap: GU5.3
Wattages: 20-50W
Volts: 12
Beam Spread: 36-60°
Feature: For heat sensitive halogen fixtures
Life: 3,000Hrs
Page: 90

AR111 Aluminium Reflector



Standard

Cap: G53
Wattages: 35-100W
Volts: 12
Beam Spread: 8-45°
Life: 3,000Hrs
Page: 90

MR 16 & MR 20 Mains Voltage GU10 Cap



Alutech™

Cap: GU10
Wattages: 20-50W
Volts: 230-240
Beam Spread: 36°
Life: Up to 3,000Hrs
Page: 90-91



Coloured

Cap: GU10
Wattages: 50W
Volts: 240
Beam Spread: 36°
Finish: Red, Yellow or Blue
Life: 1,500Hrs
Page: 91



MR 20 Mains Tech

Cap: GU10
Wattages: 75W
Volts: 240
Beam Spread: 36°
Life: 2,000Hrs
Page: 91

G9 Mains Voltage



Clear

Cap: G9
Wattages: 25-75W
Life: 1,500-3,000Hrs
Page: 91



Frosted

Cap: G9
Wattages: 25-75W
Life (hrs): 1,500-2,000Hrs
Page: 91

Selector

Single Ended Halogen Capsules



Transversal and Axial Filament

Cap: G4 or GY6.35
Wattages: 5-100W
Life: up to 4,000Hrs
Page: 92



Low Pressure

Cap: G4 or GY6.35
Wattages: 10-75W
Life: 2,000Hrs
Page: 92



Start

Cap: G4 or GY6.35
Wattages: 10-100W
Life: 1,000Hrs
Page: 92

Double Ended Linear



Energy Saver

Cap: R7s
Wattages: 100-330W
Life: 1,000Hrs
Page: 93



IR

Cap: R7s
Wattages: 225-375W
Life: 2,000Hrs
Page: 93



Standard and Start

Cap: R7s
Wattages: 60-2000W
Life: 1,000-2,000Hrs
Page: 93

PAR 16, 20, 25, 30



PAR 16

Cap: E14
Wattages: 40W
Life: 2,000Hrs
Page: 94



PAR 20

Cap: E27
Wattages: 50W
Beam Choice: Spot or Flood
Life: 2,000Hrs
Page: 94



PAR 25

Cap: E27
Wattages: 75W
Beam Choice: Flood
Life: 3,000Hrs
Page: 94



PAR 30

Cap: E27
Wattages: 75-100W
Beam Choice: Spot or Flood
Life: 2,000-3,000Hrs
Page: 94

Energy Efficient Halogen Incandescent Shapes



HaloGLS

Cap: E27, B22
Wattages: 28-100W
Life: 2,000Hrs
Page: 94



HaloCandle

Cap: E14, E27, B15, B22
Wattages: 18-42W
Life: 2,000Hrs
Page: 95



HaloSpherical

Cap: E14, B15, E27, B22
Wattages: 18-42W
Life: 2,000Hrs
Page: 95



HaloReflector

Cap: E14, E27
Wattages: 28-70W
Life: 2,000Hrs
Page: 95

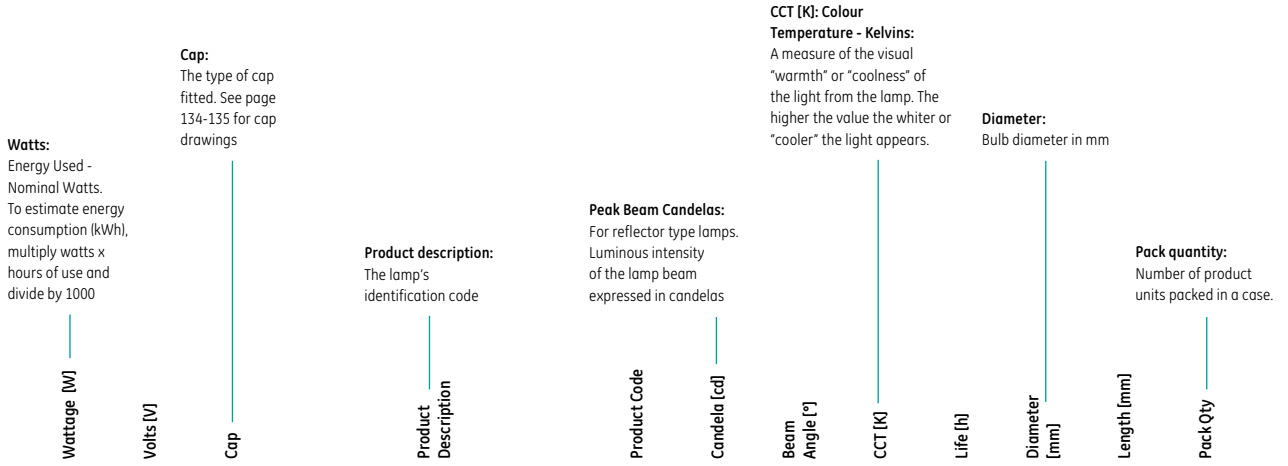
Halogen Lamps

Product identification

The following glossary of terms will help you when selecting lamps in this section. Within each product line, lamps are divided into families - within these families, lamps are listed by wattage. The Product Description can be used as a quick reference to each product's attributes. Where Life or Average Life are stated we refer to the industry standard definition of how many hours of operation 50% of a given installation will exceed.

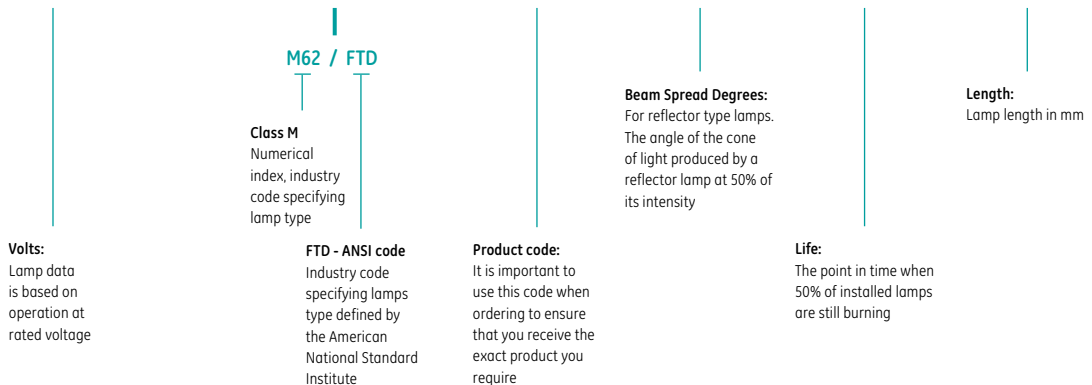
Additional parameters:

Lumens: Light output
EEC: Energy Efficiency Class



Precise™ MR11 - Open

20	12	GU4	M62/FTD	19626	550	26	2900	3,500	35.3	40	10
35	12	GU4	M66/FTF	19635	2300	21	2900	3,500	35.3	40	10
35	12	GU4	M199/FTH	19634	1300	26	2900	3,500	35.3	40	10



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
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Precise™ MR11 - Open

20	12	GU4	M62/FTD	19626	550	26	2900	3,500	35.3	40	10
35	12	GU4	M66/FTF	19635	2300	21	2900	3,500	35.3	40	10
35	12	GU4	M199/FTH	19634	1300	26	2900	3,500	35.3	40	10



Precise™ MR11 - Closed

12	12	GU4	M264/FTA/CG	19639	3960	8	2900	2,000	35.3	45	10
20	12	GU4	M251/FTC/CG	19636	1800	17	2900	3,500	35.3	45	10
20	12	GU4	M262/FTD/CG	19625	490	26	2900	3,500	35.3	45	10
35	12	GU4	M266/FTF/CG	19627	2070	21	2900	3,500	35.3	45	10



MR11 Start - Closed

20	12	GU4	FTD/M262/CG	17200	490	26	2900	2,000	35	40	10
35	12	GU4	FTF/M199/CG	17201	1150	26	2900	2,000	35	40	10



MR16 IR - Energy Saver

20	12	GU5.3	M270/FRA/CG IR	45245	2300	24	3000	5,000	50.7	50.5	20
20	12	GU5.3	M281/FMW/CG IR	45240	1000	36	3000	5,000	50.7	50.5	20
35	12	GU5.3	M258/EXN/CG IR	45244	2200	24	3000	5,000	50.7	50.5	20
35	12	GU5.3	M250/EXV/CG IR	45239	4400	36	3000	5,000	50.7	50.5	20



Precise™ ConstantColor™ MR16 - Open

71	12	GU5.3	EYJ/CC	20841	5500	25	3000	4,000	50.7	46	20
71	12	GU5.3	EVC/CC	20840	2000	42	3000	4,000	50.7	46	20



Precise™ ConstantColor™ MR16 - Closed

20	12	GU5.3	ESX/CG	20858	3150	15	3000	5,000	50.7	50.5	10
20	12	GU5.3	BAB/CG	20857	475	40	3000	5,000	50.7	50.5	20
35	12	GU5.3	FRB/CG	20864	7500	12	3000	5,000	50.7	50.5	20
35	12	GU5.3	FRA/CG	20860	3200	20	3000	5,000	50.7	50.5	20
35	12	GU5.3	FMW/CG	20859	900	40	3000	5,000	50.7	50.5	20
50	12	GU5.3	EXT/CG	20872	8400	15	3000	6,000	50.7	50.5	10
50	12	GU5.3	EXZ/CG	20871	2900	25	3000	6,000	50.7	50.5	20
50	12	GU5.3	EXN/CG	20867	1500	40	3000	6,000	50.7	50.5	20
50	12	GU5.3	FNV/CG	20865	850	55	3000	6,000	50.7	50.5	10
71	12	GU5.3	EYF/CG	20876	10400	15	3000	4,000	50.7	50.5	20
71	12	GU5.3	EYJ/CG	20874	4550	25	3000	4,000	50.7	50.5	20
71	12	GU5.3	EVC/CG	20873	2000	40	3000	4,000	50.7	50.5	20



Precise™ Bright 5000 MR16 - Open

20	12	GU5.3	M69/BAB	88231	480	36	2900	5,000	50.7	46	10
35	12	GU5.3	M70/FRA	88228	3210	18	2900	5,000	50.7	46	10
35	12	GU5.3	M81/FMW	88229	1390	36	2900	5,000	50.7	46	10
50	12	GU5.3	M58/EXN	88234	2250	36	2900	5,000	50.7	46	10
50	12	GU5.3	M80/FNV	88232	1070	60	2900	5,000	50.7	46	10



Halogen Lamps

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Candela (cd)	Beam Angle [°]	CCT (K)	Life (h)	Diameter (mm)	Length (mm)	Pack Qty
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Precise™ Bright 5000 MR16 - Closed

20	12	GU5.3	M269/BAB/CG	88235	450	36	2900	5,000	50.7	50.5	10
35	12	GU5.3	M281/FMW/CG	88236	1300	36	2900	5,000	50.7	50.5	10
50	12	GU5.3	M250/EXZ/CG	88237	4750	18	2900	5,000	50.7	50.5	10
50	12	GU5.3	M258/EXN/CG	88239	2100	36	2900	5,000	50.7	50.5	10
50	12	GU5.3	M280/FNV/CG	88238	950	60	2900	5,000	50.7	50.5	10



MR16 Start - Open

20	12	GU5.3	M69/BAB/EC	38000	500	36	2900	2,000	50.7	47.6	20
35	12	GU5.3	M81/FMW/EC	38001	925	36	2900	2,000	50.7	47.6	20
50	12	GU5.3	M58/EXN/EC	38002	1500	36	2900	2,000	50.7	47.6	20



MR16 Start - Closed

20	12	GU5.3	M268/ESX/CG/EC	38012	3150	12	2900	2,000	50.7	50.5	20
20	12	GU5.3	M269/BAB/CG/EC	38006	450	36	2900	2,000	50.7	50.5	20
35	12	GU5.3	FRB/CG/EC	38013	6750	12	2900	2,000	50.7	50.5	20
35	12	GU5.3	M281/FMW/CG/EC	38007	830	36	2900	2,000	50.7	50.5	20
50	12	GU5.3	M249/EXT/CG/EC	38014	8550	12	2900	2,000	50.7	50.5	20
50	12	GU5.3	M250/EXZ/CG/EC	39611	2700	24	2900	2,000	50.7	50.5	20
50	12	GU5.3	M258/EXN/CG/EC	38011	1350	36	2900	2,000	50.7	50.5	20
50	12	GU5.3	M280/FNV/CG/EC	39236	630	55	2900	2,000	50.7	50.5	20



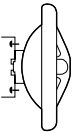
Precise™ Alutech™ MR16 - Closed

20	12	GU5.3	M269/BAB/CG/AL	88216	450	36	2900	3,000	50.7	50.5	10
35	12	GU5.3	M281/FMW/CG/AL	88217	1300	36	2900	3,000	50.7	50.5	10
50	12	GU5.3	M258/EXN/CG/AL	88215	1800	36	2900	3,000	50.7	50.5	10
50	12	GU5.3	M280/FNV/CG/AL	88214	700	60	2900	3,000	50.7	50.5	10



AR111 - Low pressure capsule with aluminium reflector

35	12	G53	AR111 35W12V SP	10774	14000	8	2900	2,000	111	67	10
35	12	G53	AR111 35W12V FL	10775	2500	24	2900	2,000	111	67	10
50	12	G53	AR111 50W12V SP	10766	17800	8	2900	3,000	111	67	10
50	12	G53	AR111 50W12V FL	10767	3500	24	2900	3,000	111	67	10
75	12	G53	AR111 75W12V SP	10768	23500	8	2900	3,000	111	67	10
75	12	G53	AR111 75W12V FL	10769	5300	24	2900	3,000	111	67	10
75	12	G53	AR111 75W12V WFL	10771	1700	45	2900	3,000	111	67	10
100	12	G53	AR111 100W12V SP	41915	40000	8	2900	3,000	111	67	10
100	12	G53	AR111 100W12V FL	41922	8000	24	2900	3,000	111	67	10
100	12	G53	AR111 100W12V WFL	41923	2300	45	2900	3,000	111	67	10



MR16 Mains Alutech™ Long Life

50	230	GU10	Q50MR16/230/25°	40402	950	25	2800	3,000	51	55	50
50	230	GU10	Q50MR16/230/36°	40403	600	36	2800	3,000	51	55	50
50	240	GU10	Q50MR16/240/25°	40404	950	25	2800	3,000	51	55	50
50	240	GU10	Q50MR16/240/36°	40405	600	36	2800	3,000	51	55	50



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
MR16 Mains Alutech™											
20	230	GU10	Q20MR16/230/FL	10898	200	36	2700	1,500	51	55	10
35	230	GU10	Q35MR16/230/FL	10896	400	36	2700	1,500	51	55	10
50	230	GU10	Q50MR16/230/FL	92729	600	36	2700	1,500	51	55	10
20	240	GU10	Q20MR16/240/FL	10859	200	36	2700	1,500	51	55	10
35	240	GU10	Q35MR16/240/FL	10857	400	36	2700	1,500	51	55	10
50	240	GU10	Q50MR16/240/FL	92730	600	36	2700	1,500	51	55	10



Colour	Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
MR16 Mains Alutech™ - Coloured												
Red	50	240	GU10	Q50MR16/240/FL START	12988	600	36	2700	1,500	51	55	10
Blue	50	240	GU10	Q50MR16/240/FL START	12995	600	36	2700	1,500	51	55	10
Yellow	50	240	GU10	Q50MR16/240/FL START	13003	600	36	2700	1,500	51	55	10



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
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MR20 Mains Alutech™

75	240	GU10	Q75MR20/240V/FL/BL	19624	1300	25	2900	2,000	63	108	10
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Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
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Single ended mains voltage capsule short G9 - Clear

25	230	G9	SHORTG9 25W CL 230V	45692	260	2800	1,500	13	43	10
40	230	G9	SHORTG9 40W CL 230V	22504	460	2800	3,000	13	43	10
60	230	G9	SHORTG9 60W CL 230V	22513	820	2800	3,000	13	43	10
75	230	G9	SHORTG9 75W CL 230V	23517	1100	2800	2,000	13	43	10
25	240	G9	SHORTG9 25W CL 240V	88941	260	2800	1,500	13	43	10
40	240	G9	SHORTG9 40W CL 240V	22498	460	2800	2,000	13	43	10
60	240	G9	SHORTG9 60W CL 240V	22508	820	2800	2,000	13	43	10
75	240	G9	SHORTG9 75W CL 240V	23518	1100	2800	2,000	13	43	10



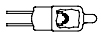
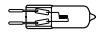
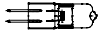
Single ended mains voltage capsule short G9 - Frosted

25	230	G9	SHORTG9 25W FR 230V	45693	260	2800	1,500	43	43	10
40	230	G9	SHORTG9 40W FR 230V	22507	460	2800	2,000	13	43	10
60	230	G9	SHORTG9 60W FR 230V	22515	820	2800	2,000	13	43	10
75	230	G9	SHORTG9 75W FR 230V	23521	1000	2800	2,000	13	43	10
25	240	G9	SHORTG9 25W FR 240V	88956	260	2800	1,500	13	43	10
40	240	G9	SHORTG9 40W FR 240V	22501	460	2800	2,000	13	43	10
60	240	G9	SHORTG9 60W FR 240V	22510	820	2800	2,000	13	43	10
75	240	G9	SHORTG9 75W FR 240V	23532	1000	2800	2,000	13	43	10



Halogen Lamps

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Life (h)	Diameter (mm)	Length (mm)	Pack Qty
Single ended low voltage capsule - Transversal filament										
10	6	G4	M29/Q10 G4	34720	200	2800	100	9	33	20
20	6	G4	M30/ESB/Q20 G4	34718	450	2900	100	9	33	20
20	6	G4	M34/FHE/Q20 G4	34719	350	2900	2,000	9	33	20
5	12	G4	M9/H5 G4	42959	60	2800	2,000	9	33	20
10	12	G4	M11/H10 G4	34674	140	2800	2,000	9	33	20
20	12	G4	M35/Q20 G4	34714	400	2900	250	9	33	20
20	12	G4	M47/Q20 G4	34715	380	2900	2,000	9	33	100
35	12	GY6.35	M95/Q35/GY6.35	34708	550	2900	3,000	11	44	100
50	12	GY6.35	M32/Q50 GY6.35	34702	930	2900	4,000	11	44	100
75	12	GY6.35	M313/Q75/GY6.35	34682	1350	2900	2,000	11	44	20
100	12	GY6.35	M28/Q100 GY6.35	34676	2200	2900	3,000	11	44	100
50	24	GY6.35	M89/Q50/GY6.35 24V	34684	750	2900	2,000	11	44	20
100	24	GY6.35	M67/Q100 GY6.35 24V	34663	2000	2900	2,000	11	44	100
Single ended low voltage capsule - Axial filament										
10	6	G4	M42/Q10 G4	34728	140	2800	2,000	9	33	20
20	12	GY6.35	M76/Q20/GY6.35	34712	300	2900	3,000	11	44	100
35	12	GY6.35	M75/Q35/GY6.35	34710	600	2900	4,000	11	44	100
50	12	GY6.35	M74/Q50/GY6.35	34703	900	2900	4,000	11	44	100
75	12	GY6.35	M73/Q75/GY6.35	34683	1350	2900	4,000	11	44	20
100	12	GY6.35	M180/Q100/GY6.35	34664	2150	2900	4,000	11	44	20
Single ended low voltage capsule - Low Pressure, Axial filament										
10	12	G4	Q10T2,5/12V G4	35705	140	2800	2,000	9	33	20
20	12	G4	Q20T2,5/12V G4	35710	320	2900	2,000	9	33	20
20	12	GY6.35	Q20T3/12V GY6.35	35696	300	2900	2,000	11	44	20
35	12	GY6.35	Q35T3/12V GY6.35	35699	600	2900	2,000	11	44	20
50	12	GY6.35	Q50T3/12V GY6.35	35700	900	2900	2,000	11	44	20
75	12	GY6.35	Q75T3/12V GY6.35	35701	1350	2900	2,000	11	44	20
Single ended low voltage capsule Start - Transversal filament										
10	12	G4	M11/Q10/G4 ST	12708	100	2800	1,000	10	33	20
20	12	G4	M47/Q20/G4 ST	12711	250	2900	1,000	10	33	20
35	12	GY6.35	M95/Q35/GY6.35 ST	12712	480	2900	1,000	11	44	20
50	12	GY6.35	M32/Q50/GY6.35 ST	12713	800	2900	1,000	11	44	20
100	12	GY6.35	Q100/GY6.35 ST	12718	1950	2900	1,000	11	44	20



Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Life (h)	Diameter (mm)	Length (mm)	EEC	Pack Qty
Double ended linear Halogen Energy Saver											
100	230	R7s	K12 C100W 230V R7S	76210	1900	2800	1,000	8	78	C	10
130	230	R7s	K11 C130W 230V R7S	76209	2440	2800	1,000	8	117.6	C	10
200	230	R7s	K9 C200W 230V R7S	76208	4000	2800	1,000	8	117.6	C	10
330	230	R7s	K1 C330W 230V R7S	76207	7000	2800	1,000	8	117.6	C	10
100	240	R7s	K12 C100W 240V R7S	76530	1900	2800	1,000	8	78	C	10
130	240	R7s	K11 C130W 240V R7S	76529	2440	2800	1,000	8	117.6	C	10
200	240	R7s	K9 C200W 240V R7S	76528	4000	2800	1,000	8	117.6	C	10
330	240	R7s	K1 C330W 240V R7S	76527	7000	2800	1,000	8	117.6	C	10

Double ended linear Halogen IR

225	230	R7s	K9/Q225 T3/230V HIR	91515	5000	3000	2,000	10	117.6	C	10
375	230	R7s	K1/Q375 T3/230V HIR	31598	9400	3000	2,000	10	117.6	C	10
225	240	R7s	K9/Q225 T3/240V HIR	43299	5000	3000	2,000	10	117.6	C	10
375	240	R7s	K1/Q375 T3/240V HIR	31612	9400	3000	2,000	10	117.6	C	10

Double ended linear Halogen

300	120	R7s	K9/Q300 T2.5/CL	91750	6200	2800	2,000	8	117.6	D	10
500	120	R7s	K1/Q500 T2.5/CL	29161	11000	2900	2,000	8	117.6	C	10
60	230	R7s	Q60 T2.5	96729	820	2800	2,000	8	78.3	D	10
100	230	R7s	K14/Q100 T2.5/CL	91427	1600	2800	2,000	8	78.3	D	10
150	230	R7s	K12/Q150 T2.5/CL	91428	2600	2800	2,000	8	78.3	D	10
150	230	R7s	K28/Q150 T2.5/CL	91433	2100	2800	2,000	8	117.6	E	10
200	230	R7s	K27/Q150 T2.5/CL	91430	3400	2800	2,000	8	78.3	D	10
200	230	R7s	K11/Q200 T2.5/CL	91434	3100	2800	2,000	8	117.6	E	10
300	230	R7s	K9/Q300 T2.5/CL	91436	5100	2800	2,000	8	117.6	E	10
500	230	R7s	K1/Q500 T2.5/CL	29165	9800	2900	2,000	8	117.6	D	10
1000	230	R7s	K4/Q1000 T3/CL	29180	21000	2900	2,000	10	189.1	N/A	100
1500	230	R7s	K5/Q1500 T3/CL	29184	32000	2900	1,000	10	254.1	N/A	100
2000	230	R7s	K8/Q2000 T3/CL	30886	44000	2900	1,000	10	330.8	N/A	10
100	240	R7s	K14/Q100 T2.5/CL	91506	1600	2800	2,000	8	78.3	D	10
150	240	R7s	K12/Q150 T2.5/CL	91507	2600	2800	2,000	8	78.3	D	10
150	240	R7s	K28/Q150 T2.5/CL	91511	2100	2800	2,000	8	117.6	E	10
200	240	R7s	K11/Q200 T2.5/CL	91512	3100	2800	2,000	8	117.6	E	10
300	240	R7s	K9/Q300 T2.5/CL	91514	5100	2800	2,000	8	117.6	E	10
500	240	R7s	K1/Q500 T2.5/CL	29168	9800	2900	2,000	8	117.6	D	10
1000	240	R7s	K4/Q1000 T3/CL	29181	21000	2900	2,000	10	189.1	N/A	10
1000	240	R7s	K10/1000 T3/CL	43712	21000	2900	2,000	10	254.1	N/A	6
1500	240	R7s	K5/Q1500 T3/CL	23830	33000	2900	1,000	10	254.1	N/A	12
1500	240	R7s	K5/Q1500 T3/CL	29187	32000	2900	1,000	10	254.1	N/A	10
1500	277	R7s	K5/Q1500 T3/CL	23832	33000	2900	2,000	10	254.1	N/A	12

Double ended linear Halogen Start

100	230	R7s	K41/Q100 CL	91432	1050	2800	1,000	8	117.6	F	10
200	230	R7s	K11/230V ST	93471	2850	2800	1,500	8	117.6	E	10
300	230	R7s	K9/230V ST	93472	4600	2800	1,500	8	117.6	E	10
500	230	R7s	K1/230V ST	93473	9000	2900	1,500	8	117.6	E	10
200	240	R7s	K11/240V ST	93475	2850	2800	1,500	8	117.6	E	10
300	240	R7s	K9/240V ST	93476	4600	2800	1,500	8	117.6	E	10
500	240	R7s	K1/240V ST	93477	9000	2900	1,500	8	117.6	E	10



Halogen Lamps



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
HaloTubular T38										
1000	230	E40	Halo T38/1000W/E40/230	32108	21000	2900	2,000	38	280	10
1000	240	E40	Halo T38/1000W/E40/240	32109	21000	2900	2,000	38	280	10



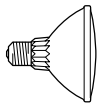
Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
Halogen PAR 16											
40	230	E14	40PAR16/230/FL	27826	950	25	2800	2,000	51	79	10
40	240	E14	40PAR16/240/FL	27845	950	25	2800	2,000	51	79	10



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
Halogen PAR 20											
50	230	E27	50PAR20/230/SP	40363	3000	10	2800	2,000	64.5	91	15
50	230	E27	50PAR20/230/FL	40362	1000	25	2800	2,000	64.5	91	15
50	240	E27	50PAR20/240/SP	40364	3000	10	2800	2,000	64.5	91	15
50	240	E27	50PAR20/240/FL	40365	1000	25	2800	2,000	64.5	91	15



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
Halogen PAR 25											
75	230	E27	75PAR25/230/FL	91775	1300	25	2800	3,000	81	108	15
75	240	E27	75PAR25/240/FL	92165	1300	25	2800	3,000	81	108	15



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
Halogen PAR 30											
75	230	E27	75PAR30/230/SP	40366	6200	10	2800	2,000	97	90.5	15
75	230	E27	75PAR30/230/FL	40349	2000	30	2800	2,000	97	90.5	15
100	230	E27	100PAR30/230/FL	32484	3100	30	2800	3,000	97	90.5	15
75	240	E27	75PAR30/240/SP	40367	6200	10	2800	2,000	97	90.5	15
75	240	E27	75PAR30/240/FL	40361	2000	30	2800	2,000	97	90.5	15
100	240	E27	100PAR30/240/FL	32482	3100	30	2800	3,000	97	90.5	15



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
Energy Efficient HaloGLS											
28	230	E27	28W HALO A CL E27 230V	76957	340	2900	2,000	50	96	D	10
42	230	E27	42W HALO A CL E27 230V	76953	630	2900	2,000	50	96	C	10
70	230	E27	70W HALO A CL E27 230V	76948	1300	2900	2,000	50	96	C	10
100	230	E27	100W HALO A CL E27 230V	76944	1800	2900	2,000	50	96	C	10
28	240	E27	28W HALO A CL E27 240V	76954	340	2900	2,000	50	96	D	8
42	240	E27	42W HALO A CL E27 240V	76950	630	2900	2,000	50	96	C	8
70	240	E27	70W HALO A CL E27 240V	76945	1300	2900	2,000	50	96	C	8
100	240	E27	100W HALO A CL E27 240V	76941	1800	2900	2,000	50	96	C	8
28	240	B22	28W HALO A CL B22 240V	76955	340	2900	2,000	50	96	D	8
42	240	B22	42W HALO A CL B22 240V	76951	630	2900	2,000	50	96	C	8
70	240	B22	70W HALO A CL B22 240V	76946	1300	2900	2,000	50	96	C	8
100	240	B22	100W HALO A CL B22 240V	76942	1800	2900	2,000	50	96	C	8

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
Energy Efficient HaloCandle											
18	230	E14	18W HALO C CL E14 230V	76940	170	2900	2,000	36	100	D	10
28	230	E14	28W HALO C CL E14 230V	76936	340	2900	2,000	36	100	D	10
42	230	E14	42W HALO C CL E14 230V	76575	630	2900	2,000	36	100	C	10
28	230	E27	28W HALO C CL E27 230V	76934	340	2900	2,000	36	100	D	10
42	230	E27	42W HALO C CL E27 230V	76573	630	2900	2,000	36	100	C	10
18	240	E14	18W HALO C CL E14 240V	76937	170	2900	2,000	36	100	D	12
28	240	E14	28W HALO C CL E14 240V	76930	340	2900	2,000	36	100	D	12
42	240	E14	42W HALO C CL E14 240V	76569	630	2900	2,000	36	100	C	12
28	240	E27	28W HALO C CL E27 240V	76929	340	2900	2,000	36	100	D	12
42	240	E27	42W HALO C CL E27 240V	76568	630	2900	2,000	36	100	C	12
28	240	B15	28W HALO C CL B15 240V	76932	340	2900	2,000	36	100	D	12
42	240	B15	42W HALO C CL B15 240V	76571	630	2900	2,000	36	100	C	12
18	240	B22	18W HALO C CL B22 240V	76938	170	2900	2,000	36	100	D	12
28	240	B22	28W HALO C CL B22 240V	76931	340	2900	2,000	36	100	D	12
42	240	B22	42W HALO C CL B22 240V	76570	630	2900	2,000	36	100	C	12



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
Energy Efficient HaloSpherical											
18	230	E14	18W HALO S CL E14 230V	76567	170	2900	2,000	45	78	D	10
28	230	E14	28W HALO S CL E14 230V	76561	340	2900	2,000	45	78	D	10
42	230	E14	42W HALO S CL E14 230V	76553	630	2900	2,000	45	78	C	10
18	230	E27	18W HALO S CL E27 230V	76565	170	2900	2,000	45	78	D	10
28	230	E27	28W HALO S CL E27 230V	76559	340	2900	2,000	45	78	D	10
42	230	E27	42W HALO S CL E27 230V	76551	630	2900	2,000	45	78	C	10
18	240	E14	18W HALO S CL E14 240V	76562	170	2900	2,000	45	78	D	12
28	240	E14	28W HALO S CL E14 240V	76555	340	2900	2,000	45	78	D	12
42	240	E14	42W HALOS CL E14 240V	76548	630	2900	2,000	45	78	C	12
28	240	E27	28W HALO S CL E27 240V	76554	340	2900	2,000	45	78	D	12
42	240	E27	42W HALOS CL E27 240V	76547	630	2900	2,000	45	78	C	12
28	240	B15	28W HALO S CL B15 240V	76557	340	2900	2,000	45	78	D	12
18	240	B22	18W HALO S CL B22 240V	76563	170	2900	2,000	45	78	D	12
28	240	B22	28W HALO S CL B22 240V	76556	340	2900	2,000	45	78	D	12
42	240	B22	42W HALOS CL B22 240V	76549	630	2900	2,000	45	78	C	12



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
Energy Efficient HaloReflector											
28	230	E14	28W HALO R50 E14 230V	76546	340	2900	2,000	50	86		10
42	230	E27	42W HALO R63 E27 230V	76543	630	2900	2,000	63.5	101		10
42	230	E27	42W HALO R80 E27 230V	76540	630	2900	2,000	80	121		10
70	230	E27	70W HALO R80 E27 230V	76537	1300	2900	2,000	80	121		10
28	240	E14	28W HALO R50 E14 240V	76544	340	2900	2,000	50	86		8
42	240	E27	42W HALO R63 E27 240V	76541	630	2900	2,000	63.5	101		6
42	240	E27	42W HALO R80 E27 240V	76538	630	2900	2,000	80	121		6

