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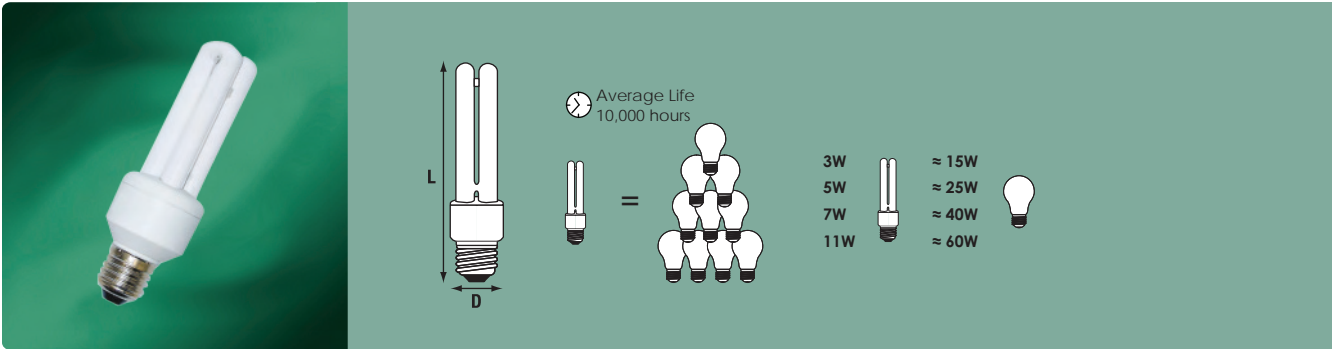


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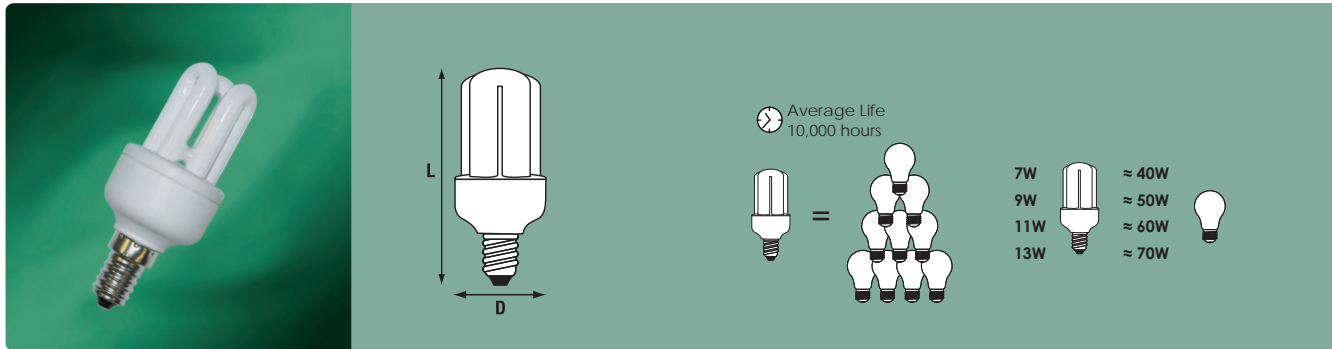
E2U Electronic Energy Saving Lamps



Lamp Code	Voltage (V)	Wattage (W)	Diameter D		Length L		Lumen (lm)	
			E14	B22/E27	E14	B22/E27		
E2UT3-3W	120 / 240	3	34	37	102	96	150	A
E2UT3-5W	120 / 240	5	34	37	112	106	230	A
E2UT3-7W	120 / 240	7	34	37	122	116	330	A
E2UT3-11W	120 / 240	11	34	38	141	141	540	A

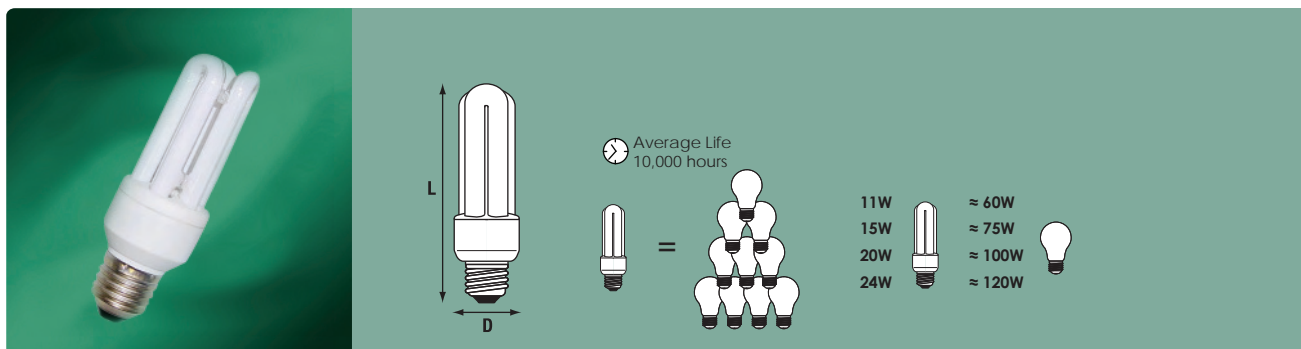
-
- High luminous efficacy, save 80% energy
 - Average life 10000 hours
 - Colour temperature 2700K, 3000K, 4000K and 6500K
 - Flicker free rapid start up
 - Radio-interference suppressed
 - Colour Rendering Index (Ra) ≥ 82
 - High power factor version available (λ) ≥ 0.95
 - **Comply to EU Ecodesign Requirements - Commission Regulation No. 244/2009**

E3U T2 Super Slim Electronic Energy Saving Lamps



Lamp Code	Voltage (V)	Wattage (W)	Base	Diameter D (mm)	Length L (mm)	Lumen (lm)	
E3UT2-7W	120 / 240	7	E14, E27, B22	38	90	300	A
E3UT2-9W	120 / 240	9	E14, E27, B22	38	100	405	A
E3UT2-11W	120 / 240	11	E14, E27, B22	38	105	535	A
E3UT2-13W	120 / 240	13	E14, E27, B22	38	115	665	A

E3U Electronic Energy Saving Lamps

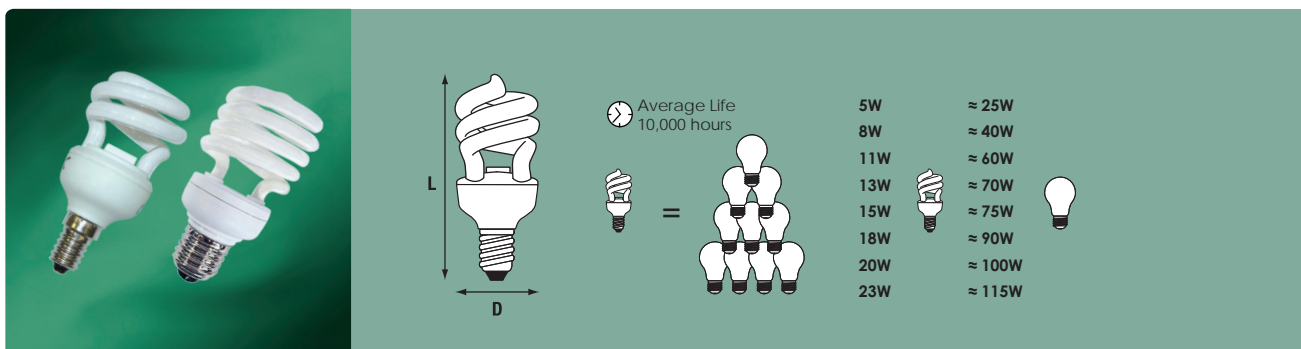


Lamp Code	Voltage (V)	Wattage (W)	Base	Diameter D (mm)	Length L (mm)	Lumen (lm)	Energy Efficiency Class
E3UT3-11W	120 / 240	11	E14, E27, B22	41	116	650	A
E3UT3-15W	120 / 240	15	E14, E27, B22	41	136	880	A
E3UT4-20W	120 / 240	20	E27, B22	48	164	1250	A
E3UT4-24W	120 / 240	24	E27, B22	48	174	1500	A




- High luminous efficacy, save 80% energy
- Average life 10000 hours
- Colour temperature 2700K, 3000K, 4000K and 6500K
- Flicker free rapid start up
- Radio-interference suppressed
- Colour Rendering Index (Ra) ≥ 82
- High power factor version available (λ) ≥ 0.95
- Comply to EU Ecodesign Requirements - Commission Regulation No. 244/2009

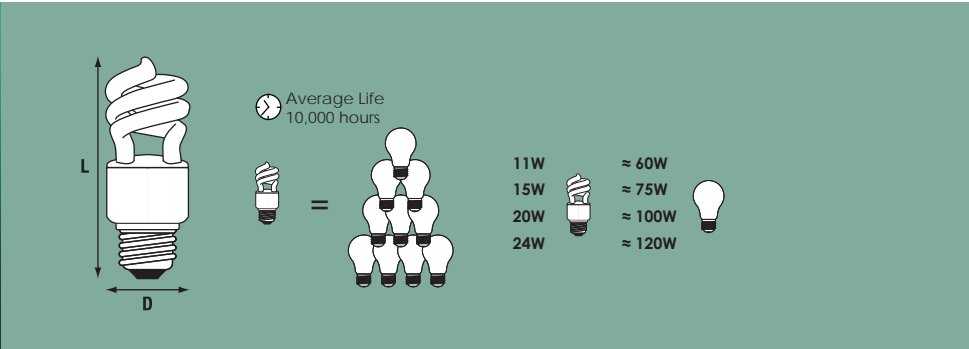
EU Half Spiral T2 Super Slim Electronic Energy Saving Lamps




Lamp Code	Voltage (V)	Wattage (W)	Diameter D (mm)		Length L (mm)		Lumen (lm)	Energy Efficiency Class
			E14	B22/E27	E14	B22/E27		
EUHST2-5W	120 / 240	5	35	40	94	77	250	A
EUHST2-8W	120 / 240	8	35	46	103	85	450	A
EUHST2-11W	120 / 240	11	40	46	109	93	610	A
EUHST2-13W	120 / 240	13	-	46	-	101	700	A
EUHST2-15W	120 / 240	15	-	46	-	106	850	A
EUHST2-18W	120 / 240	18	-	46	-	110	1100	A
EUHST2-20W	120 / 240	20	-	56	-	113	1250	A
EUHST2-23W	120 / 240	23	-	56	-	118	1500	A

EU Half Spiral Electronic Energy Saving Lamps






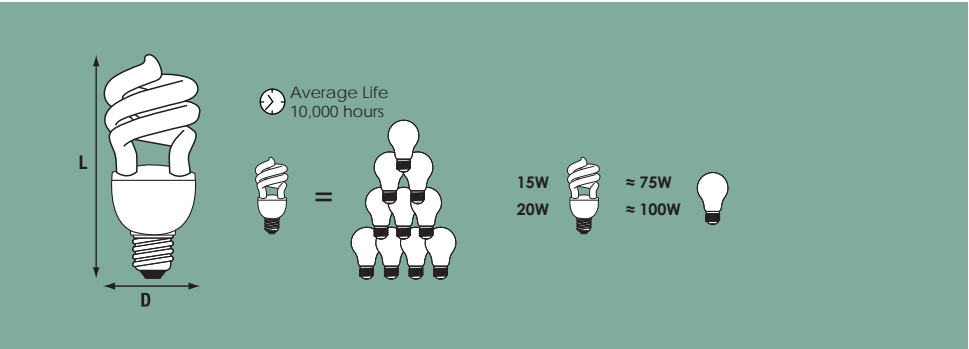
Lamp Code	Voltage (V)	Wattage (W)	Diameter D		Length L		Lumen (lm)	
			E14	B22/E27	E14	B22/E27		
EUHST3-11W	120 / 240	11	40	42	117	120	600	A
EUHST3-15W	120 / 240	15	52	52	129	129	820	A
EUHST3-20W	120 / 240	20	59	59	129	129	1155	A
EUHST3-24W	120 / 240	24	-	59	-	139	1450	A


- High luminous efficacy, save 80% energy
- Average life 10000 hours
- Colour temperature 2700K, 3000K, 4000K and 6500K
- Flicker free rapid start up
- Radio-interference suppressed
- Colour Rendering Index (Ra) ≥ 82
- High power factor version available (λ) ≥ 0.95
- Comply to EU Ecodesign Requirements - Commission Regulation No. 244/2009



Dimmable EU Half Spiral Electronic Energy Saving Lamps

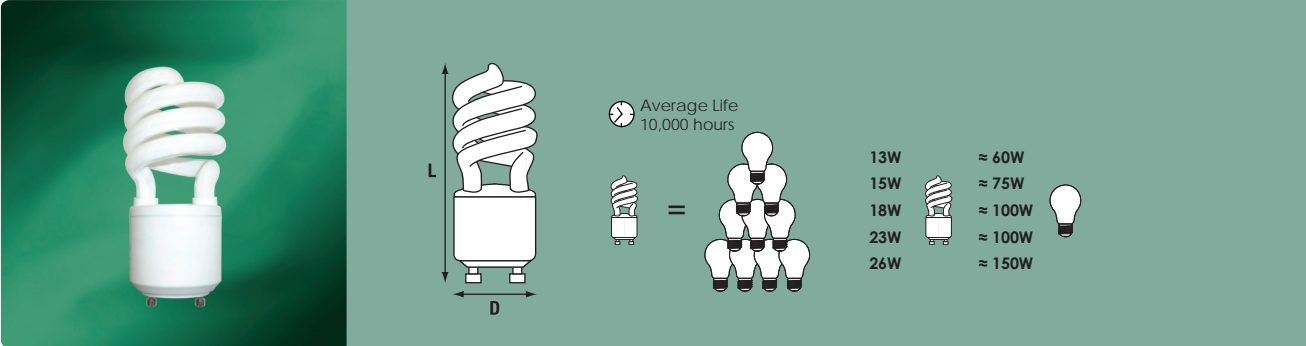




Lamp Code	Voltage (V)	Wattage (W)	Base	Diameter D (mm)	Length L (mm)	Lumen (lm)	
EUHST4-15WD	120 / 240	15	E27, B22	59	137	800	A
EUHST4-20WD	120 / 240	20	E27, B22	59	143	1200	A

- Provide atmospheric lighting replacing incandescent lamps with 80% energy saving
- Compatible with common dimmer switches and systems
- Smooth dimming with brightness range 10% to 100% without flickering

ESL GU24 Electronic Energy Saving Lamps

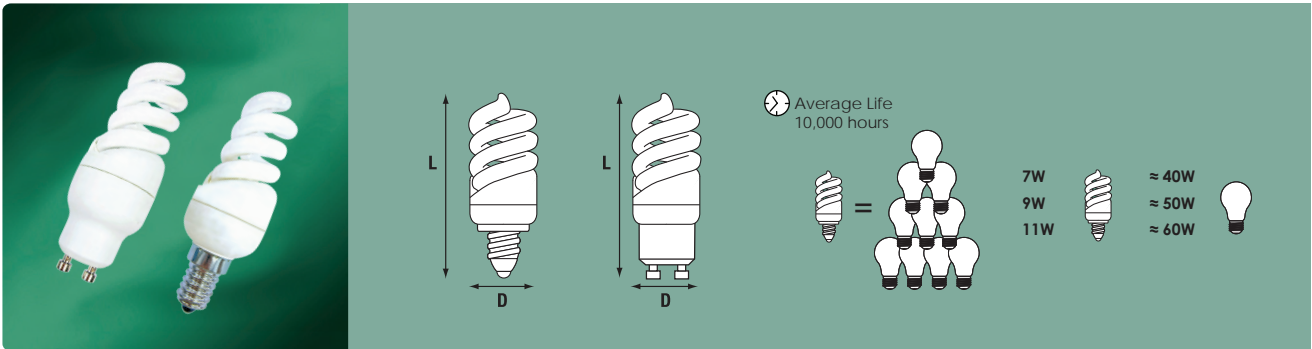


Lamp Code	Voltage (V)	Wattage (W)	Base	Diameter D (mm)	Length L (mm)	Lumen (lm)
ESL GU24 13W	120	13	GU24	52	115	620
ESL GU24 15W	120	15	GU24	52	121	850
ESL GU24 18W	120	18	GU24	52	121	1030
ESL GU24 23W	120	23	GU24	59	127	1320
ESL GU24 26W	120	26	GU24	59	132	1490



- High luminous efficacy, save 80% energy
- Average life 10000 hours
- Colour temperature 2700K, 3000K, 4000K and 6500K
- Flicker free rapid start up
- Radio-interference suppressed
- Colour Rendering Index (Ra) ≥ 82
- High power factor version available (λ) ≥ 0.95

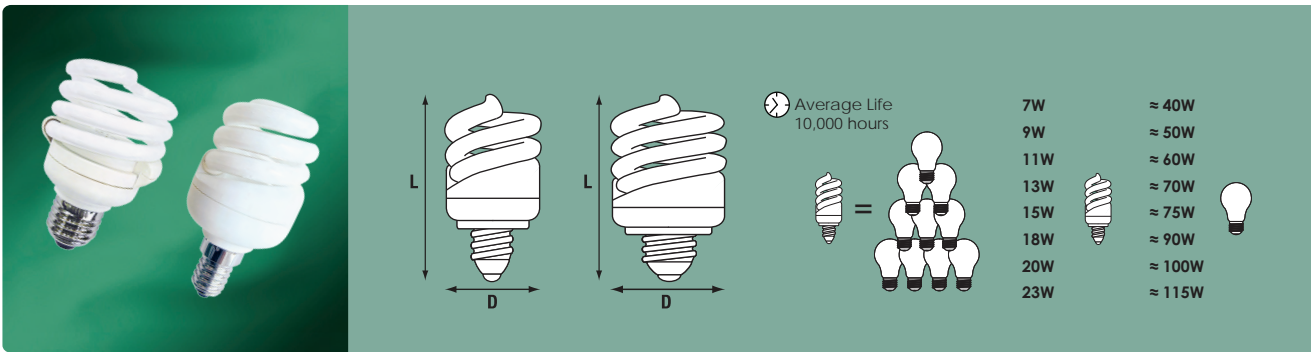
EU Full Spiral T2 Super Slim Electronic Energy Saving Lamps



Lamp Code	Voltage (V)	Wattage (W)	Diameter D (mm)	Length L (mm)		Lumen (lm)	
				E14	GU10		
FUSILLI-7W	120/240	7	32	87		350	A
FUSILLI-9W	120/240	9	32	98		450	A
FUSILLI-11W	120/240	11	32	104		550	A

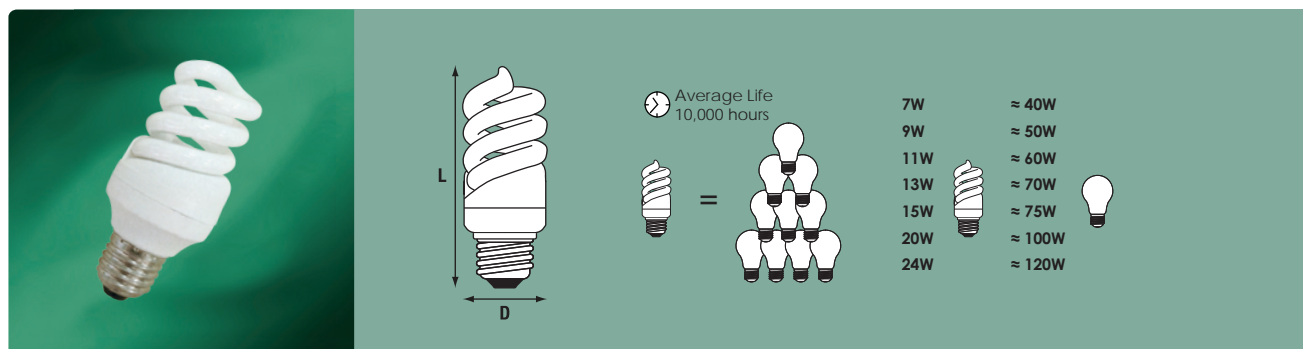


- High luminous efficacy, save 80% energy
- Average life 10000 hours
- Colour temperature 2700K, 3000K, 4000K and 6500K
- Flicker free rapid start up
- Radio-interference suppressed
- Colour Rendering Index (Ra) ≥ 82
- High power factor version available (λ) ≥ 0.95
- Comply to EU Ecodesign Requirements - Commission Regulation No. 244/2009



Lamp Code	Voltage (V)	Wattage (W)	Diameter D (mm)	Length L (mm)		Lumen (lm)	
				E14 / E27			
EUST2-7W	120/240	7	40	78	---	380	A
EUST2-9W	120/240	9	40	83	---	480	A
EUST2-11W	120/240	11	40	90	---	580	A
EUST2-13W	120/240	13	42	102	98	700	A
EUST2-15W	120/240	15	42	107	103	850	A
EUST2-18W	120/240	18	60	---	90	1100	A
EUST2-20W	120/240	20	60	---	95	1250	A
EUST2-23W	120/240	23	60	---	100	1400	A

EU FULL Spiral Electronic Energy Saving Lamps



Lamp Code	Voltage (V)	Wattage (W)	Base	Diameter D (mm)	Length L (mm)	Lumen (lm)	Energy Efficiency Class
EUST3-7W	120 / 240	7	E14, E27, B22	38	95	380	A
EUST3-9W	120 / 240	9	E14, E27, B22	38	100	430	A
EUST3-11W	120 / 240	11	E14, E27, B22	38	109	600	A
EUST3-13W	120 / 240	13	E14, E27, B22	38	114	720	A
EUST3-15W	120 / 240	15	E27, B22	48	115	820	A
EUST4-20W	120 / 240	20	E27, B22	60	146	1155	A
EUST4-24W	120 / 240	24	E27, B22	60	155	1450	A



EMC/LVD tested

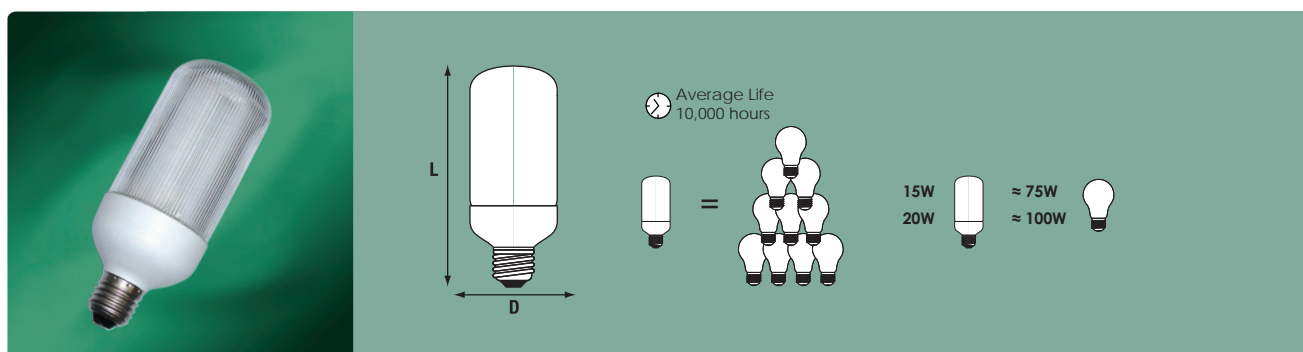


Baumuster geprüft



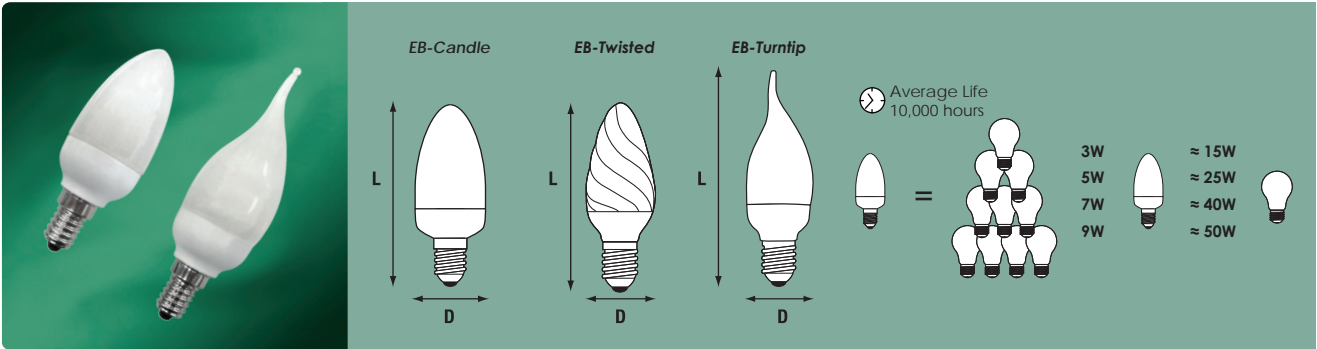
- High luminous efficacy, save 80% energy
- Average life 10000 hours
- Colour temperature 2700K, 3000K, 4000K and 6500K
- Flicker free rapid start up
- Radio-interference suppressed
- Colour Rendering Index (Ra) ≥ 82
- High power factor version available (λ) ≥ 0.95
- Comply to EU Ecodesign Requirements - Commission Regulation No. 244/2009

EB Capsule Electronic Energy Saving Lamps



Lamp Code	Voltage (V)	Wattage (W)	Base	Diameter D (mm)	Length L (mm)	Lumen (lm)	Energy Efficiency Class
EB-Capsule 15W	120 / 240	15	E27, B22	62	165	800	A
EB-Capsule 20W	120 / 240	20	E27, B22	62	165	1080	B

EB Candle Electronic Energy Saving Lamps

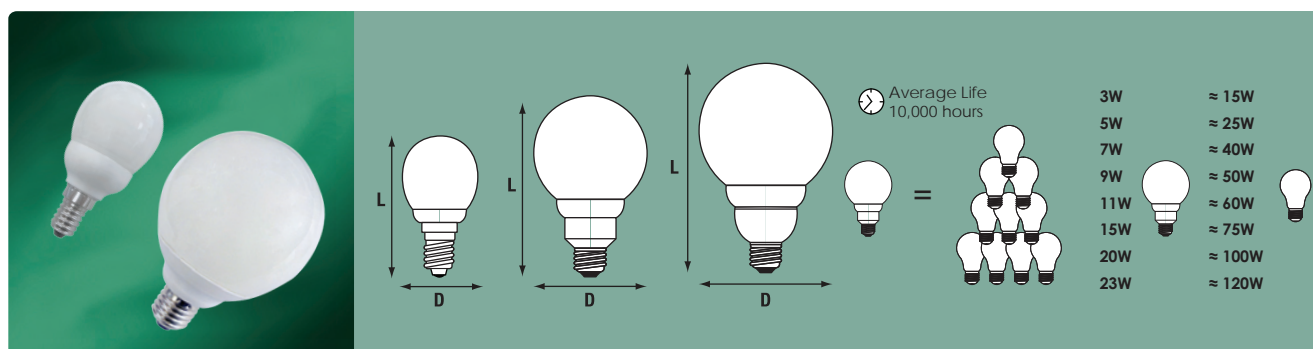


Lamp Code	Voltage (V)	Wattage (W)	Base	Diameter D (mm)	Length L (mm)	Lumen (lm)	Energy Efficiency
EB-Candle 3W	120 / 240	3	E14, E27, B22	37	102	120	A
EB-Candle 5W	120 / 240	5	E14, E27, B22	37	102	200	A
EB-Candle 7W	120 / 240	7	E14, E27, B22	37	102	290	A
EB-Candle 9W	120 / 240	9	E14, E27, B22	38	112	405	A
EB-Twisted 3W	120 / 240	3	E14, E27, B22	37	102	120	A
EB-Twisted 5W	120 / 240	5	E14, E27, B22	37	102	200	A
EB-Twisted 7W	120 / 240	7	E14, E27, B22	37	102	290	A
EB-Turntip 3W	120 / 240	3	E14, E27, B22	40	132	120	A
EB-Turntip 5W	120 / 240	5	E14, E27, B22	40	132	200	A
EB-Turntip 7W	120 / 240	7	E14, E27, B22	40	132	290	A



- ✦ High luminous efficacy, save 80% energy
- ✦ Average life 10000 hours
- ✦ Colour temperature 2700K, 3000K, 4000K and 6500K
- ✦ Flicker free rapid start up
- ✦ Radio-interference suppressed
- ✦ Colour Rendering Index (Ra) ≥ 82
- ✦ High power factor version available (λ) ≥ 0.95
- ✦ Comply to EU Ecodesign Requirements - Commission Regulation No. 244/2009

EG Globe Electronic Energy Saving Lamps

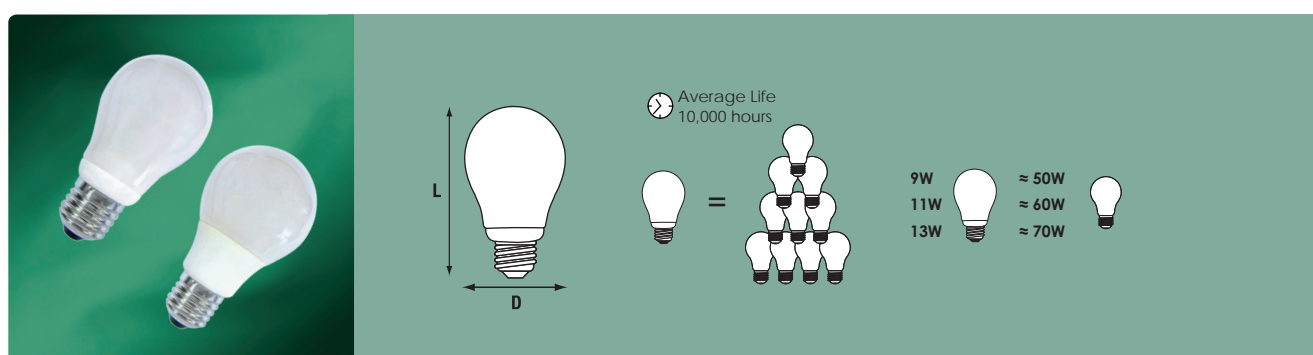


Lamp Code	Voltage (V)	Wattage (W)	Base	Diameter D (mm)	Length L (mm)	Lumen (lm)	Energy Efficiency Class
EG45 3W	120 / 240	3	E14, E27, B22	45	88	120	A
EG45 5W	120 / 240	5	E14, E27, B22	45	88	200	A
EG45 7W	120 / 240	7	E14, E27, B22	45	88	290	A
EG55 9W	120 / 240	9	E14, E27, B22	55	95	440	A
EG60 11W	120 / 240	11	E14, E27, B22	60	103	550	A
EG95 15W	120 / 240	15	E27, B22	95	133	800	A
EG95 20W	120 / 240	20	E27, B22	95	133	1175	A
EG120 23W	120 / 240	23	E27, B22	120	162	1380	A

- High luminous efficacy, save 80% energy
- Average life 10000 hours
- Colour temperature 2700K, 3000K, 4000K and 6500K
- Flicker free rapid start up
- Radio-interference suppressed
- Colour Rendering Index (Ra) ≥ 82
- High power factor version available (λ) ≥ 0.95
- Comply to EU Ecodesign Requirements - Commission Regulation No. 244/2009

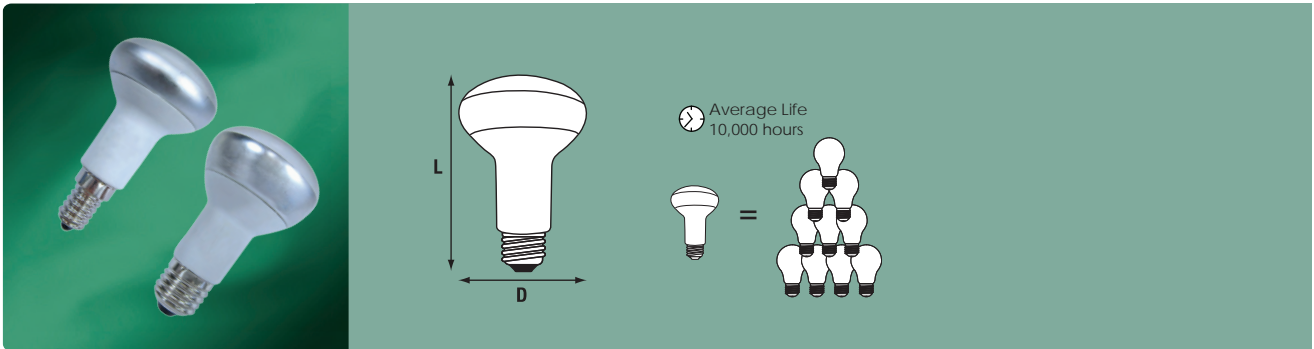


EB GLS Electronic Energy Saving Lamps



Lamp Code	Voltage (V)	Wattage (W)	Base	Diameter D (mm)	Length L (mm)	Lumen (lm)	Energy Efficiency Class
EB-GLS 9W	120 / 240	9	E27, B22	60	110	410	A
EB-GLS 11W	120 / 240	11	E27, B22	60	110	560	A
EB-GLS 13W	120 / 240	13	E27, B22	60	110	670	A

EB Reflector Electronic Energy Saving Lamps

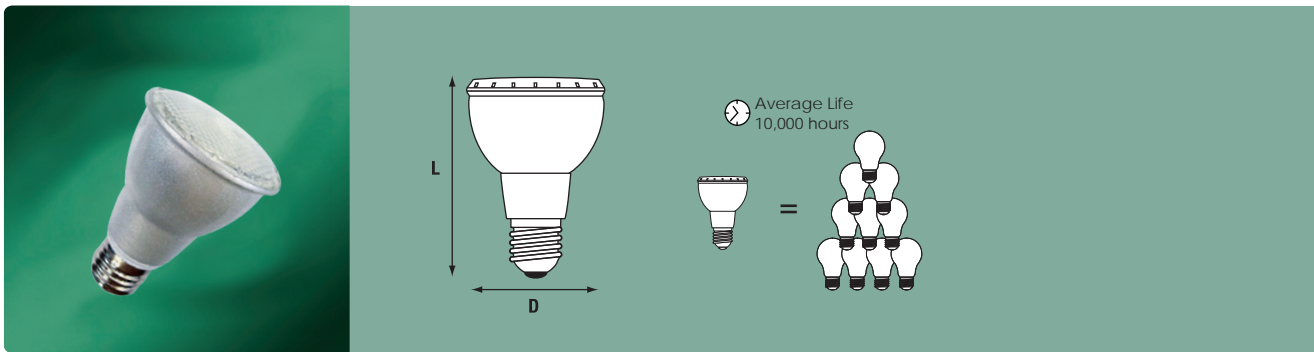


Lamp Code	Voltage (V)	Wattage (W)	Base	Diameter D (mm)	Length L (mm)	Intensity (cd)
EB-R50 6W	120 / 240	6	E14	50	86	80
EB-R63 9W	120 / 240	9	E27, B22	63	103	150
EB-R63 11W	120 / 240	11	E27, B22	63	103	180



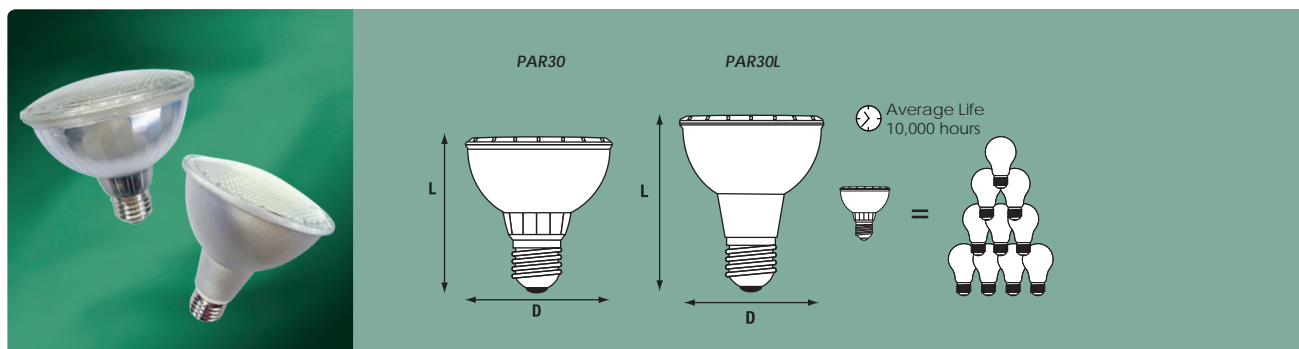
- Only 20% power consumption of Incandescent / Halogen Lamps
- Average life 10000 hours
- Colour temperature 2700K, 4000K and 6500K
- Flicker free rapid start up
- Radio-interference suppressed
- Temperature problem-free
- Easy retrofit Incandescent Reflector lamps / Halogen PAR Lamps

ESL PAR20 Electronic Reflector Energy Saving Lamps



Lamp Code	Voltage (V)	Wattage (W)	Base	Diameter D (mm)	Length L (mm)	Intensity (cd)
ESL PAR20 9W	120 / 240	9	E26, E27	65	97	130
ESL PAR20 11W	120 / 240	11	E26, E27	65	97	185

ESL PAR30 and PAR30L Electronic Reflector Energy Saving Lamps

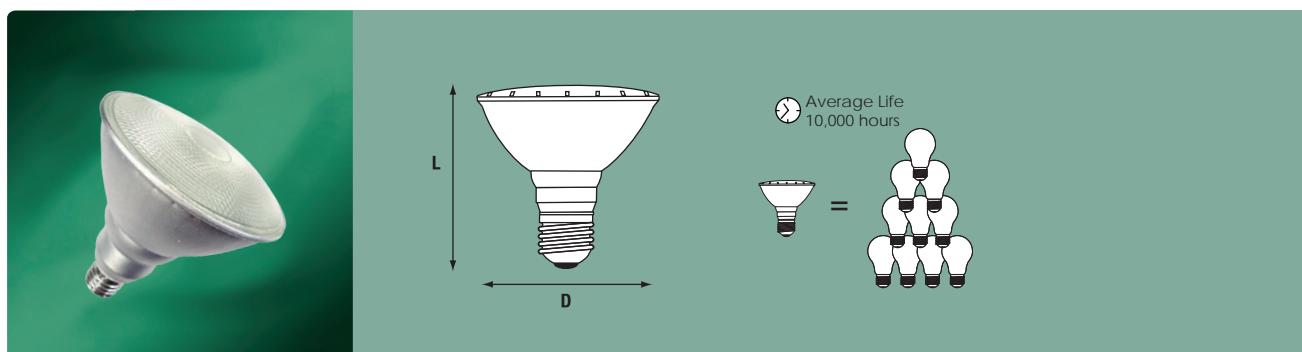


Lamp Code	Voltage (V)	Wattage (W)	Base	Diameter D (mm)	Length L (mm)	Intensity (cd)
ESL PAR30 11W	120 / 240	11	E26, E27	97	95	185
ESL PAR30 13W	120 / 240	13	E26, E27	97	95	210
ESL PAR30 15W	120 / 240	15	E26, E27	97	95	240
ESL PAR30L 13W	120 / 240	13	E26, E27	97	118	210
ESL PAR30L 15W	120 / 240	15	E26, E27	97	118	240



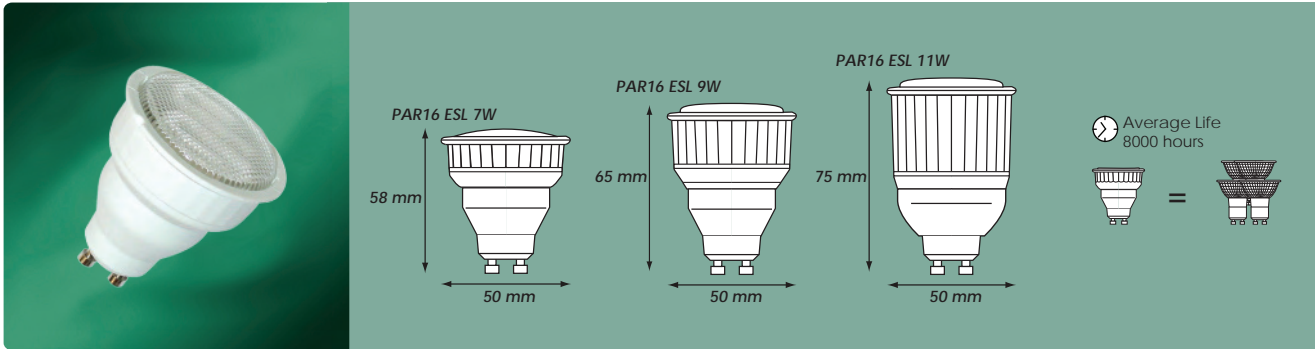
- Only 20% power consumption of Halogen Lamps
- Average life 10000 hours
- Colour temperature 2700K, 4000K and 6500K
- Flicker free rapid start up
- Radio-interference suppressed
- Temperature problem-free, heat release 30% less than Halogen PAR lamps
- Same size as Halogen PAR lamps for easy retrofit

ESL PAR38 Electronic Reflector Energy Saving Lamps



Lamp Code	Voltage (V)	Wattage (W)	Base	Diameter D (mm)	Length L (mm)	Intensity (cd)
ESL PAR38 20W	120 / 240	20	E26, E27	122	136	310
ESL PAR38 23W	120 / 240	23	E26, E27	122	136	380

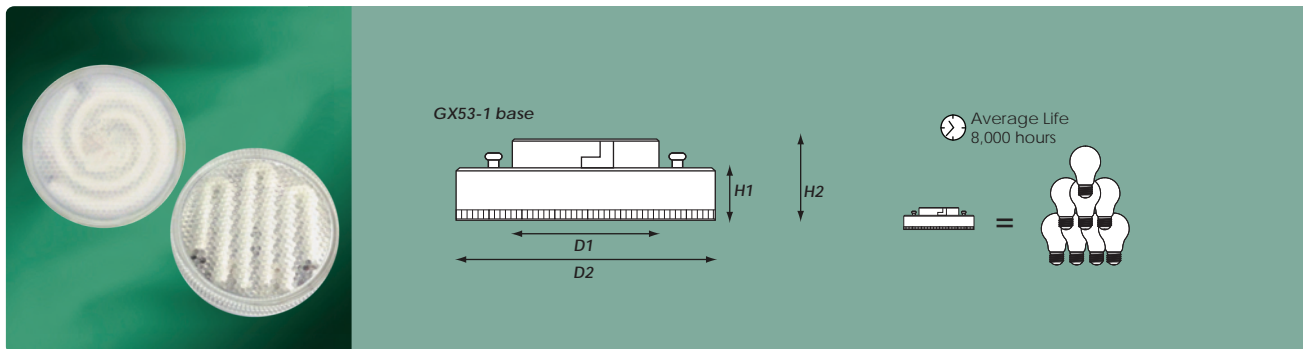
PAR16 ESL/GU10 Electronic Reflector Energy Saving Lamps



- Saves 80% power in replacing GU10 Halogen Lamp
- Give soft and well-proportional light
- Same size as GU10 halogen lamp
- Colour Temperature 2700K, 3000K, 4000K and 6500K
- Average life : 8000 hours

Lamp Code	Voltage (V)	Wattage (W)	Base	Beam Angle	Intensity (cd)
PAR16 ESL 7W/GU10	110 – 130 / 220 – 240	7	GU10	90°	62
PAR16 ESL 9W/GU10	110 – 130 / 220 – 240	9	GU10	90°	95
PAR16 ESL 11W/GU10	110 – 130 / 220 – 240	11	GU10	90°	136

MCF Mini Compact Fluorescent Lamps



- Compact in size
- Perfect Ignition - with integral electronic ballast for immediate Ignition
- With twist and lock lamp base for safe and easy installation
- Average life 8000 hours
- Colour temperature 2700K, 3000K, 4000K and 6500K
- Excellent colour rendition Ra 80-89, 1B
- Comply to EU Ecodesign Requirements - Commission Regulation No. 244/2009

Applications

- Kitchen Light
- Recess area
- Wardrobe Light
- Stair Light
- Ground Light
- Wall mount
- Furniture Light
- Cabinet Light

Lamp Code	Wattage (W)	CRI (Ra)	Base	Diameter		Height		Lumen (lm)	Energy Efficiency Class
				D1	D2	H1	H2		
				(mm)		(mm)			
MCF 6W/GX53-1	6	80 – 89, 1B	GX53 – 1	42	75	16.7	26	220	B
MCF 9W/GX53-1	9	80 – 89, 1B	GX53 – 1	42	75	16.7	26	280	B

Available Voltage Range:

- 110 - 130V C-UL approval
- 220 - 240V Full CE certification available