

PRECAUTIONS:

- Do not disassemble or modify the lamp.
- Do not use fixtures with dimming circuits – direct current fixtures – totally enclosed recessed fixtures.
- Do not use with in-house electric generator equipment.
- Do not use on a source voltage that fluctuates above 250V and below 170V (for 220-240V type).
- Do not use with a fixture with occupancy sensor switch
- Do not touch the lamp while it is on or just after it has been on as it will be very hot.
- Do not install where water may come into contact with the lamp.
- Do not place inflammable objects near the lamp.
- Do not cover the lamp with paper or cloth, or coat it with paint, as the lamp may catch fire or be damaged.

2010



PANASONIC ENERGY SAVING LIGHT BULBS

IDEAS FOR  
A CLEANER  
FUTURE



Specifications are subject to change without prior note to further improvement.  
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DISTRIBUTOR

DEALER

[WWW.PANASONIC.EU/LIGHTING](http://WWW.PANASONIC.EU/LIGHTING)



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## EU is switching to ESL

As part of Europe's commitment to the Kyoto protocol, all members of the European Union agreed to forbid the production and sales of traditional light bulbs (incandescent), starting from 2009. With regulation that came into effect in March 2009, the EU is actively promoting the use of more energy-efficient lighting, such as compact fluorescent lamps (80% savings), also known as energy-saving lamps or ESL.

Because industry and consumers need time to change their light bulbs, the EU decided to introduce a gradual ban between 2009 and 2012:

from 1 September 2009 no more incandescent bulbs of 100W or higher

from 1 September 2010 no more incandescent bulbs of 75W or higher

from 1 September 2011 no more incandescent bulbs of 60W or higher

from 1 September 2012 no more incandescent bulbs of 25W or higher

from 1 September 2016 no more halogen lamps of energy class C

Once this programme is operational, the EU estimates that these new measures will save close to 80 TWh of electricity by 2020, and lead to a reduction of about 32 million tons of CO<sub>2</sub> emissions per year. This is the equivalent of the yearly electricity consumption of 23 million households, or 20 power stations of 500 MW. That is also equivalent to about €11 billion that could be re-injected each year in the EU's economy.



## PANASONIC'S ADVANCED TECHNOLOGY

### More compact design with brilliant shape

Panasonic has successfully reduced the minimal lamp wattage down to 13W for a 70W incandescent equivalent, with an innovative "spiral arc tube" enabling the ultra compact size of the Light Capsule series still keeping tri-phosphor technology and higher colour rendering for natural looking light.

### Ultra long life

Thanks to its unique quadruple coil technology, Panasonic energy-saving lamps last longer than most competitors. At an average use of 4 hours per day, the new Light Capsule lasts for up to 15.000 hours or 10 years ! Compare lifetime between products !

### Number 1 in efficiency (up to 70 lm/W)

The Panasonic Energy-Saving lamps provides more light per Watt than most competitors. With a wide voltage range (operating between 170V-250V) and a quick start of 40% of lumen output within 1 second, they can be used in a variety of applications such as in-floor lighting or staircases.

## Environmentally sound

### All Panasonic Energy-Saving lamps comply with EU Green Policies:

All tubes are made of lead-free glass, and the use of water-based adhesives instead of glue prevents the release of toxic substances. Recyclable plastics mean scarce resources are conserved and the burden on landfills is reduced.

### No liquid mercury

All Panasonic Energy-Saving lamps use amalgam technology, which is an eco-friendly and safer alternative to liquid mercury. This prevents the release of toxic mercury during the manufacturing process and even if the lamps should break, no mercury will be released in the atmosphere. Not only does this protect the environment, it also allows us to produce more compact lamps with excellent lumen maintenance.

Panasonic lamps have less than 2 milligrams (0,002 grams) of mercury (compared to 0,5 g in dental amalgam filling or several grams in older thermometers) which is much under the 5 mg limit set in the Restriction on Hazardous Substances Directive (2002/95/EC).

### End of Life Recycling in the European Union

Please note that all used compact fluorescent lamps have to be recycled in a specialised circuit to reduce their impact on the environment. Because some of their components such as mercury, electronics, lead glass and deposits from the transformation of fluorescent gas can be dangerous and should therefore be kept apart from normal household waste.



**Saving energy = saving the environment** By switching to Energy-Saving lamps, we also reduce CO<sub>2</sub> emissions. At 360 g for each kWh of energy, changing 10 lamps is a reduction of 269 kg CO<sub>2</sub> / year. If all 99 million households in Europe changed 10 bulbs, we save 74 billion kWh and emit 27 million tons of CO<sub>2</sub> less. Nature would require almost 2 million cedar trees to absorb this amount of CO<sub>2</sub> !  
(Source: www.energy.eu)




**Saving energy = saving money** All our lamps are A-Energy rating for excellent performance. Also, compared to 60W incandescent lamp, Panasonic ESL of 13W provides more light, but also saves 47W of energy. Changing 10 lamps saves 470 W, and using them for 1 year saves over 857 kWh. At an average electricity cost of 0,15 €/kWh, this means a yearly saving of 128 €. And because Panasonic's lamps last up to 15 times longer, you keep on saving money for a many years to come !  
(e.g. 0,15 € / kWh is the cost for electricity in Germany in February '09, as per EU data; source: www.energy.eu)




**"AKARI" Philosophy** Akari is the defining Panasonic Lighting Philosophy since 1936. Akari is a Japanese word that not only means the actual physical lighting, but also takes into account the space and the feelings of those who live there. "Akari" is rooted deep into each culture and touches people's everyday lives and feelings. Through "Akari" Philosophy, Panasonic aim since over 70 years now, to create most pleasant atmospheres around the world via warm and optimum lighting while co-existing with our environment.


## ENERGY SAVING LAMPS




Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFA8E27HD	8W	40W	15.000	Soft Warm - 2700K	485
EFA8E65HD	8W	40W	15.000	Cool Daylight - 6500K	435




Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFD8E27HD	8W	40W	15.000	Soft Warm - 2700K	560
EFD8E65HD	8W	40W	15.000	Cool Daylight - 6500K	536




Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFA13E282V	13W	70W	15.000	Soft Warm - 2800K	780
EFA13E672V	13W	70W	15.000	Cool Daylight - 6700K	720




Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFD13E282V	13W	70W	15.000	Soft Warm - 2800K	780
EFD13E672V	13W	70W	15.000	Cool Daylight - 6700K	720




Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFG13E282V	13W	70W	15.000	Soft Warm - 2800K	780
EFG13E672V	13W	70W	15.000	Cool Daylight - 6700K	720




Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFG18E27HD	18W	100W	15.000	Soft Warm - 2700K	1150
EFG18E65HD	18W	100W	15.000	Cool Daylight - 6500K	1050




Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFA18E27HD	18W	100W	15.000	Soft Warm - 2700K	1150
EFA18E65HD	18W	100W	15.000	Cool Daylight - 6500K	1050



Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFD18E27HD	18W	100W	15.000	Soft Warm - 2700K	1250
EFD18E65HD	18W	100W	15.000	Cool Daylight - 6500K	1170




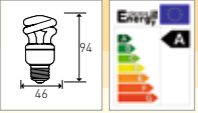
Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFA24E282V	24W	120W	15.000	Soft Warm - 2800K	1500
EFA24E672V	24W	120W	15.000	Cool Daylight - 6700K	1350



Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFD24E282V	24W	120W	15.000	Soft Warm - 2800K	1600
EFD24E672V	24W	120W	15.000	Cool Daylight - 6700K	1450


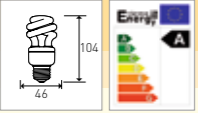


## ENERGY SAVING LAMPS


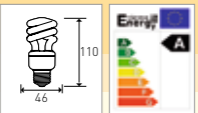
Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFD5E27HE2	5W	25W	8.000	Soft Warm - 2700K	310
EFD5E65HE2	5W	25W	8.000	Cool Daylight - 6500K	300

E27


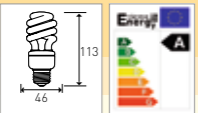
Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFD8E27HE2	8W	40W	10.000	Soft Warm - 2700K	510
EFD8E65HE2	8W	40W	10.000	Cool Daylight - 6500K	490

E27


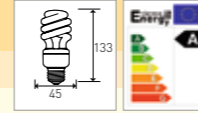
Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFD11E27HE2	11W	70W	10.000	Soft Warm - 2700K	700
EFD11E65HE2	11W	70W	10.000	Cool Daylight - 6500K	630

E27


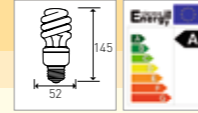
Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFD14E27HE2	14W	75W	10.000	Soft Warm - 2700K	900
EFD14E65HE2	14W	75W	10.000	Cool Daylight - 6500K	840

E27

Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFD18E27HE2	18W	100W	10.000	Soft Warm - 2700K	1225
EFD18E65HE2	18W	100W	10.000	Cool Daylight - 6500K	1150



E27

Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFD23E27HE2	23W	150W	10.000	Soft Warm - 2700K	1540
EFD23E65HE2	23W	150W	10.000	Cool Daylight - 6500K	1475

E27

## ENERGY SAVING LAMPS

Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
EFD5E27HEE14	5W	25W	8.000	Soft Warm - 2700K	310
EFD8E27HEE14	8W	40W	10.000	Soft Warm - 2700K	510

E14

Product Range CFL



## COMPACT FLUORESCENT LAMPS

### 2-pin type

**G24d-1**

Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
FDS10E27/2D	10W	60W	10.000	Soft Warm - 2700K	600
FDS10E40/2D	10W	60W	10.000	Cool White - 4000K	600

**G24d-1**

Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
FDS13E27/2D	13W	75W	10.000	Soft Warm - 2700K	900
FDS13E40/2D	13W	75W	10.000	Cool White - 4000K	900

**G24d-2**

Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
FDS18E27/2D	18W	100W	10.000	Soft Warm - 2700K	1200
FDS18E30/2D	18W	100W	10.000	Warm White - 3000K	1200
FDS18E40/2D	18W	100W	10.000	Cool White - 4000K	1200

**G24d-3**

Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
FDS26E27/2D	26W	150W	10.000	Soft Warm - 2700K	1800
FDS26E30/2D	26W	150W	10.000	Warm White - 3000K	1800
FDS26E40/2D	26W	150W	10.000	Cool White - 4000K	1800

### 4-pin type

**G24q-1**

Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
FDS13E27/4D	13W	75W	10.000	Soft Warm - 2700K	900
FDS13E40/4D	13W	75W	10.000	Cool White - 4000K	900

**G24q-2**

Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
FDS18E27/4D	18W	100W	10.000	Soft Warm - 2700K	1200
FDS18E30/4D	18W	100W	10.000	Warm White - 3000K	1200
FDS18E40/4D	18W	100W	10.000	Cool White - 4000K	1200

**G24q-3**

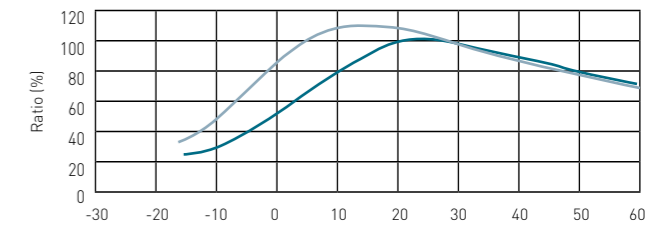
Product Code	Lamp wattage	Equivalent for Incandescent	Lifetime (hours)	Light Colour Kelvin (K)	Lumen
FDS26E27/4D	26W	150W	10.000	Soft Warm - 2700K	1800
FDS26E30/4D	26W	150W	10.000	Warm White - 3000K	1800
FDS26E40/4D	26W	150W	10.000	Cool White - 4000K	1800

specifications

ESL

EFA13L & EFG13L  
EFD13L

[Test condition at 120V (60Hz), Base up]



Model Number	Lamp Class	Description	Nominal and Rated lamp Wattage Consumption (W)	Wattage Incandescent Equivalent (W)	Energy Saving Compared to Incandescent (%)	Energy Saving Compared to Halogen (%)	EU Label Energy Rating	Color Type	Color Temperature in Kelvin (K)	Light Bulb Dimension (mm)		Tube / Globe Diameter (mm)	Light Bulb Weight (g)	Base Socket Type	Frequency (Hz)	Input Voltage (V)	Input current (A)	Nominal and Rated lamp Wattage Consumption (W)	Nominal and Rated lamp luminous flux (lm)	Efficiency Lumen per Watt (lm/W)	Lifetime (h)	Long Life up to ...years	Lumens maintenance at 4000hrs (%)	*Light Quick Start (at 25degrees Celsius) (lm)	Color Rendering index (Ra)	Operating Temperature (degrees Celsius) (cf. dependency curve below)	Switching Durability (on/off) (measured at 10sec On & 170sec Off)	Dimmable	Individual EAN Code
										Diameter	Length																		
EFD5E27HE2	Economy E27	ESL ECO SPIRAL 5W 2700K 8h	5	25	80	N/A	A	Soft Warm	2700	45	104	45	47	E27	50/60	220/240	0,040	5	310	62	8.000	6	> 80	n.a.	84	-30 / +50	n.a.	No	5025232556311
EFD5E65HE2	Economy E27	ESL ECO SPIRAL 5W 6500K 8h	5	25	80	N/A	A	Cool Daylight	6500	45	104	45	47	E27	50/60	220/240	0,040	5	300	60	8.000	6	> 80	n.a.	83	-30 / +50	n.a.	No	5025232556328
EFD8E27HE2	Economy E27	ESL ECO SPIRAL 8W 2700K 10h	8	40	80	N/A	A	Soft Warm	2700	45	109	45	50	E27	50/60	220/240	0,065	8	510	64	10.000	7	> 80	n.a.	84	-30 / +50	n.a.	No	5025232556335
EFD8E65HE2	Economy E27	ESL ECO SPIRAL 8W 6500K 10h	8	40	80	N/A	A	Cool Daylight	6500	45	109	45	50	E27	50/60	220/240	0,065	8	490	61	10.000	7	> 80	n.a.	83	-30 / +50	n.a.	No	5025232556342
EFD11E27HE2	Economy E27	ESL ECO SPIRAL 11W 2700K 10h	11	70	80	N/A	A	Soft Warm	2700	45	114	45	54	E27	50/60	220/240	0,085	11	700	64	10.000	7	> 80	n.a.	84	-30 / +50	n.a.	No	5025232556359
EFD11E65HE2	Economy E27	ESL ECO SPIRAL 11W 6500K 10h	11	70	80	N/A	A	Cool Daylight	6500	45	114	45	54	E27	50/60	220/240	0,085	11	630	57	10.000	7	> 80	n.a.	83	-30 / +50	n.a.	No	5025232556366
EFD14E27HE2	Economy E27	ESL ECO SPIRAL 14W 2700K 10h	14	75	80	N/A	A	Soft Warm	2700	45	126	45	60	E27	50/60	220/240	0,110	14	900	64	10.000	7	> 80	n.a.	84	-30 / +50	n.a.	No	5025232556373
EFD14E65HE2	Economy E27	ESL ECO SPIRAL 14W 6500K 10h	14	75	80	N/A	A	Cool Daylight	6500	45	126	45	60	E27	50/60	220/240	0,110	14	840	60	10.000	7	> 80	n.a.	83	-30 / +50	n.a.	No	5025232556380
EFD18E27HE2	Economy E27	ESL ECO SPIRAL 18W 2700K 10h	18	100	80	N/A	A	Soft Warm	2700	45	133	45	76	E27	50/60	220/240	0,150	18	1225	68	10.000	7	> 80	n.a.	84	-30 / +50	n.a.	No	5025232556397
EFD18E65HE2	Economy E27	ESL ECO SPIRAL 18W 6500K 10h	18	100	80	N/A	A	Cool Daylight	6500	45	133	45	76	E27	50/60	220/240	0,150	18	1150	64	10.000	7	> 80	n.a.	83	-30 / +50	n.a.	No	5025232556403
EFD23E27HE2	Economy E27	ESL ECO SPIRAL 23W 2700K 10h	23	120	80	N/A	A	Soft Warm	2700	52	145	52	80	E27	50/60	220/240	0,180	23	1540	67	10.000	7	> 80	n.a.	84	-30 / +50	n.a.	No	5025232556410
EFD23E65HE2	Economy E27	ESL ECO SPIRAL 23W 6500K 10h	23	120	80	N/A	A	Cool Daylight	6500	52	145	52	80	E27	50/60	220/240	0,180	23	1475	64	10.000	7	> 80	n.a.	83	-30 / +50	n.a.	No	5025232556427
EFD5E27HEE14	Economy E14	ESL ECO SPIRAL 5W 2700K 8h	5	25	80	N/A	A	Soft Warm	2700	45	105,5	45	49	E14	50/60	220/240	0,040	5	310	62	8.000	6	> 80	n.a.	84	-30 / +50	n.a.	No	5025232582631
EFD8E27HEE14	Economy E14	ESL ECO SPIRAL 8W 2700K 10h	8	40	80	N/A	A	Soft Warm	2700	45	110,5	45	54	E14	50/60	220/240	0,065	8	510	64	10.000	6	> 80	n.a.	84	-30 / +50	n.a.	No	5025232582648
EFA8E27HD	High Class E27	ESL EFA CAPSULE 8W 2700K 15h	8	40	80	N/A	A	Soft Warm	2700	50	117	50	70	E27	50/60	220/240	0,065	8	485	61	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232538348
EFA8E65HD	High Class E27	ESL EFA CAPSULE 8W 6500K 15h	8	40	80	N/A	A	Cool Daylight	6500	50	117	50	70	E27	50/60	220/240	0,065	8	435	54	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232538355
EFA13E282V	High Class E27	ESL EFA CAPSULE 13W 2800K 15h	13	70	80	N/A	A	Soft Warm	2800	55	118	55	87	E27	50/60	220/240	0,100	13	780	60	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232393428
EFA13E672V	High Class E27	ESL EFA CAPSULE 13W 6700K 15h	13	70	80	N/A	A	Cool Daylight	6700	55	118	55	87	E27	50/60	220/240	0,100	13	720	55	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232347810
EFA18E27HD	High Class E27	ESL EFA CAPSULE 20W 2800K 15h	20	100	80	N/A	A	Soft Warm	2700	60	139	65	133	E27	50/60	220/240	0,140	18	1150	64	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232565160
EFA18E65HD	High Class E27	ESL EFA CAPSULE 20W 6700K 15h	20	100	80	N/A	A	Cool Daylight	6500	60	139	65	133	E27	50/60	220/240	0,140	18	1050	58	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232565177
EFA24E282V	High Class E27	ESL EFA CAPSULE 24W 2800K 15h	24	120	80	N/A	A	Soft Warm	2800	65	164	65	149	E27	50/60	220/240	0,190	24	1500	63	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232493630
EFA24E672V	High Class E27	ESL EFA CAPSULE 24W 6700K 15h	24	120	80	N/A	B	Cool Daylight	6700	65	164	65	149	E27	50/60	220/240	0,190	24	1350	56	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232493647
EFD8E27HD	High Class E27	ESL EFD TWIST 8W 2700K 15h	8	40	80	N/A	A	Soft Warm	2700	40	96	40	50	E27	50/60	220/240	0,065	8	560	70	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232518265
EFD8E65HD	High Class E27	ESL EFD TWIST 8W 6500K 15h	8	40	80	N/A	A	Cool Daylight	6500	40	96	40	50	E27	50/60	220/240	0,065	8	536	67	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232518289
EFD13E282V	High Class E27	ESL EFD TWIST 13W 2800K 15h	13	70	80	N/A	A	Soft Warm	2800	45	112	45	66	E27	50/60	220/240	0,100	13	780	60	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232404063
EFD13E672V	High Class E27	ESL EFD TWIST 13W 6700K 15h	13	70	80	N/A	A	Cool Daylight	6700	45	112	45	66	E27	50/60	220/240	0,100	13	720	55	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232390427
EFD18E27HD	High Class E27	ESL EFD TWIST 20W 2800K 15h	20	100	80	N/A	A	Soft Warm	2700	50	133	55,5	91	E27	50/60	220/240	0,140	18	1250	69	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232518425
EFD18E65HD	High Class E27	ESL EFD TWIST 20W 6700K 15h	20	100	80	N/A	A	Cool Daylight	6500	50	133	55,5	91	E27	50/60	220/240	0,140	18	1170	65	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232518449
EFD24E282V	High Class E27	ESL EFD TWIST 24W 2800K 15h	24	120	80	N/A	A	Soft Warm	2800	55,5	140	55,5	100	E27	50/60	220/240	0,190	24	1600	67	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232537464
EFD24E672V	High Class E27	ESL EFD TWIST 24W 6700K 15h	24	120	80	N/A	A	Cool Daylight	6700	55,5	140	55,5	100	E27	50/60	220/240	0,190	24	1450	60	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232537471
EFG13E282V	High Class E27	ESL EFG GLOBE 13W 2800K 15h	13	70	80	N/A	A	Soft Warm	2800	90	133	90	109	E27	50/60	220/240	0,100	13	780	60	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232393435
EFG13E672V	High Class E27	ESL EFG GLOBE 13W 6700K 15h	13	70	80	N/A	A	Cool Daylight	6700	90	133	90	109	E27	50/60	220/240	0,100	13	720	55	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232347827
EFG18E27HD	High Class E27	ESL EFG GLOBE 18W 2800K 15h	18	100	80	N/A	A	Soft Warm	2700	95	138	95	154	E27	50/60	220/240	0,130	18	1150	64	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232565184
EFG18E65HD	High Class E27	ESL EFG GLOBE 18W 6700K 15h	18	100	80	N/A	A	Cool Daylight	6500	95	138	95	154	E27	50/60	220/240	0,130	18	1050	58	15.000	10	> 80	1sec/40%	84	-30 / +50	30.000	No	5025232565191

CFL

Model Number	Lamp Class	Description	Nominal and Rated lamp Wattage Consumption (W)	Wattage Incandescent Equivalent (W)	Energy Saving Compared to Incandescent (%)	Energy Saving Compared to Halogen (%)	EU Label Energy Rating	Color Type	Color Temperature in Kelvin (K)	Light Bulb Dimension (mm)		Tube / Globe Diameter (mm)	Light Bulb Weight (g)	Base Socket Type	Frequency (Hz)	Input Voltage (V)	Input current (A)	Nominal and Rated lamp Wattage Consumption (W)	Nominal and Rated lamp luminous flux (lm)	Efficiency Lumen per Watt (lm/W)	Lifetime (h)	Long Life up to ...years	Lumens maintenance at 4000hrs (%)	*Light Quick Start (at 25degrees Celsius) (lm)	Color Rendering index (Ra)	Operating Temperature (degrees Celsius) (cf. dependency curve below)	Switching Durability (on/off) (measured at 10sec On & 170sec Off)	Dimmable	Individual EAN Code
										Diameter	Length																		
FDS10E27/2D	CFL 2PIN	CFL FDS 2PIN 10W 2700K 10h	10	60	80	N/A	B	Soft Warm	2700	35	117	13	48,3	G24d-1	50/60	220/240	0,190	10	600	60	10.000	7	> 80	n.a.	n.a.	n.a.	n.a.	5025232051779	
FDS10E40/2D	CFL 2PIN	CFL FDS 2PIN 10W 4000K 10h	10	60	80	N/A	B	Cool White	4000	35	117	13	48,3	G24d-1	50/60	220/240	0,190	10	600	60	10.000	7	> 80	n.a.	n.a.	n.a.	n.a.	5025232051786	
FDS13E27/2D	CFL 2PIN	CFL FDS 2PIN 13W 2700K 10h	13	75	80	N/A	B	Soft Warm	2700	35	140	13	57,5	G24d-1	50/60	220/240	0,175	13	900	69	10.000	7	> 80	n.a.	n.a.	n.a.	n.a.	5025232051793	
FDS13E40/2D	CFL 2PIN	CFL FDS 2PIN 13W 4000K 10h	13	75	80	N/A	B	Cool White	4000	35	140	13	57,5	G24d-1	50/60	220/240	0,175	13	900	69	10.000	7	> 80	n.a.	n.a.	n.a.	n.a.	5025232051809	
FDS18E27/2D	CFL 2PIN	CFL FDS 2PIN 18W 2700K 10h	18	100	80	N/A	B	Soft Warm	2700	35	153	13	61	G24d-2	50/60	220/240	0,220	18	1200	67	10.000	7	> 80	n.a.	n.a.	n.a.	n.a.	5025232051816	
FDS18E30/2D	CFL 2PIN	CFL FDS 2PIN 18W 3000K 10h	18	100	80	N/A	B	Warm White	3000	35	153	13	61	G24d-2	50/60	220/240	0,220	18	1200	67	10.000								