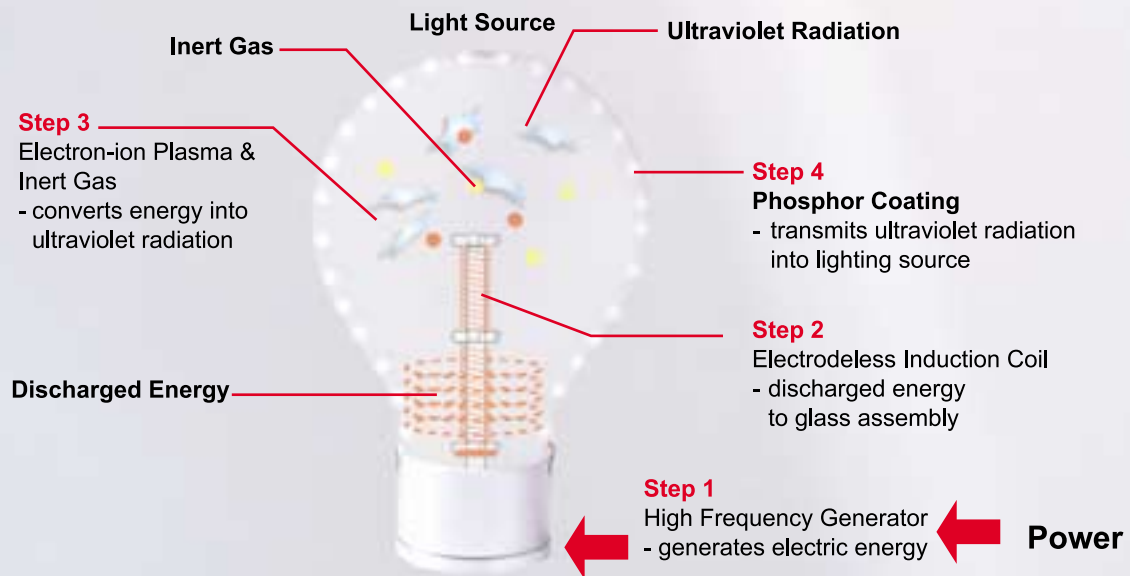


Induction technology offering **120,000*** hours rated average life

This innovative induction lamp uses an induction coil / energy-coupling antenna without electrodes, which consist of the application of low-pressure gas discharge technology in providing lighting solutions. The center of the lamp is the induction coil powered by a high frequency generator. The glass assembly surrounding the induction coil contains an electron-ion plasma material and is filled with inert gas. The inner portion of the glass is lined with a phosphor coating which is similar to that in fluorescent lamps. The antenna transmits the energy generated by the primary coil of an induction system to the gas filling, by which it creates ultraviolet radiation and is then converted into visible lighting sources by the fluorescent powder on the glass surface.



The physical mechanism



Features

Electrodeless

Instant, flicker free starting
No noise

Full range of wattage

High color rendering

Benefits

Ultra long lifetime
High reliability
Stable output through lifetime
Practically maintenance-free

Suitable for instant use without strobe effects & energy saving

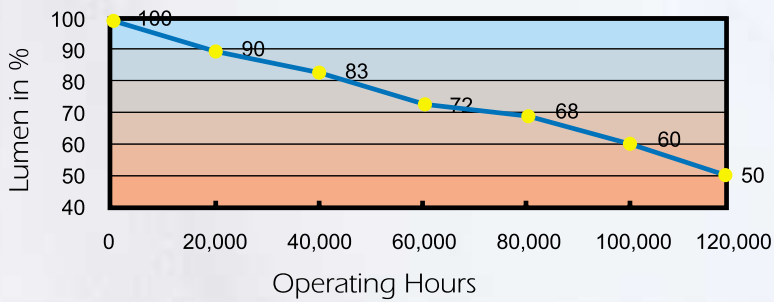
Suitable for general and specific lighting

Reflect true color of object, comfortable light source

* Rated at 50% of initial lumen

Lumen Maintenance

The Luminous flux of **the lamps** is expected to have depreciated to about 50% of the initial flux after 120,000 hours.



Luminous Characteristics

Color Temp (K)	3000
	4000
Color Rendering (Ra)	≥82

Lamp Dimension

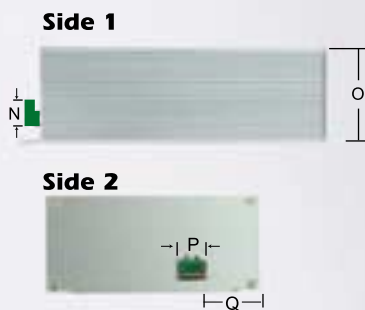
External Ballast (Flat Base)

	35W	55W	85W	125W
A	4"5/8	5"1/2	6"3/4	6"3/4
B	3"3/8	3"3/8	4"5/16	4"5/16
C		1"15/16		
D		1"3/16		
E		3/16"		
F		1"9/16		
G	M4=4mm screw diameter			

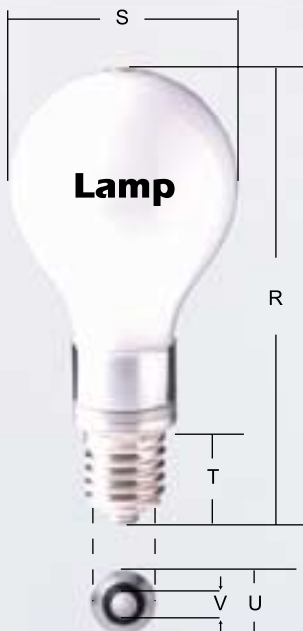
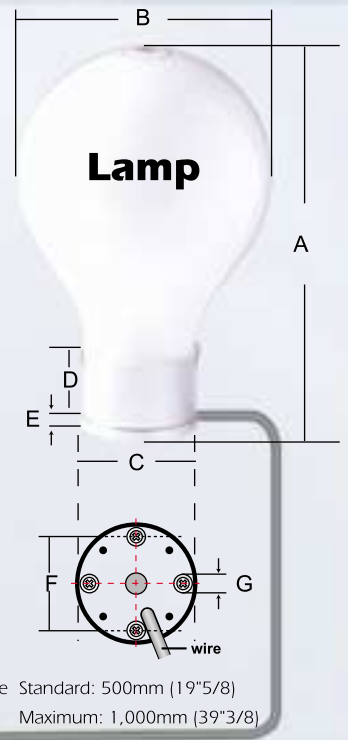
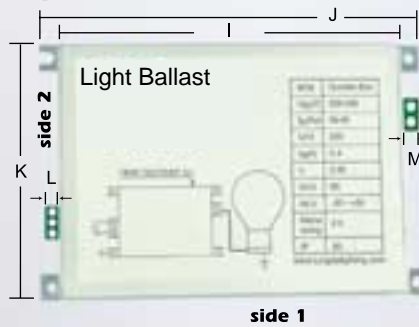
High Frequency Generator

	Large Version	Small Version*
I	6"1/8	4"1/2
J	6"7/8	5"1/4
K	4"7/16	4"7/16
L	1/2"	1/2"
M	3/8"	3/8"
N	9/16"	9/16"
O	2"	2"
P	9/16"	9/16"
Q	1"1/8	1"1/8

* Available for 35W, 55W and 85W only



Top View

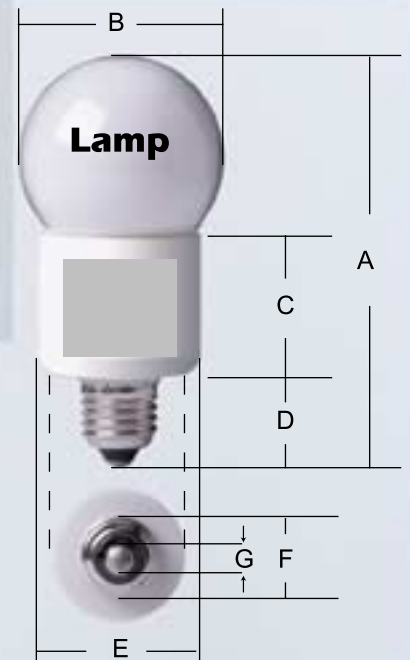


External Ballast (E39 Base)

	35W	55W	85W	125W
R	6"5/8	7"7/16	8"11/16	8"11/16
S	3"3/8	3"3/8	4"5/16	4"5/16
T		1"13/16		
U		1"1/16		
V		9/16"		

Internal Ballast (E26 Base)

	15W	23W	35W
A	5"3/8	5"3/8	6"
B	2"3/4	2"3/4	3"3/8
C		1"11/16	
D		1"1/16	
E		2"1/8	
F		5/8"	
G		3/8"	





Electrical Characteristics

1. AC Voltage Operation

	Internal Ballast	External Ballast
Rated Mains Voltage (V)	110~130	110~130
Tolerances for Safety (V)	92~138	92~138
Main Frequency	50~60 Hz	50~60 Hz
Operating Frequency	2.65MHz	2.65MHz
Power Factor	0.5	>0.95
Working Current	I=0.25A for 15W	I=0.3A for 35W
	I=0.38A for 23W	I=0.5A for 55W
	I=0.58A for 35W	I=0.65A for 85W
		I=1.15A for 125W
Temp (°C)	-40 ~ +50	-40 ~ +50
Mains Wiring		2.5
IP		20

2. DC Voltage Operation

Required battery voltage for guaranteed ignition	120VDC	92~138VDC
Nominal light output is obtained at DC voltage of	160VDC	120VDC

Specifications

1. Maximum Lamp Wall Temp.	125°C	Performance	EN60929
2. Maximum Generator Temp.	65°C	Harmonics	EN61000-3-2
3. Total Harmonic Distortion	<10%	Radio Frequency Interference	<30MHz EN 55015
4. Ignition Time	0.5 sec	Radio Frequency Interference	>30MHz EN 55022
5. Safety	EN60928		

Product List

Product Code	Product Description	Watts	Length (inch)	Cap	CCT (K)	Initial Lumens	Life Hours
(external electronic ballast)							
18505	TL35W/830	35	4"5/8	-	3000	1750	120,000
18511	TL35W/840	35	4"5/8	-	4000	1750	120,000
18605	TL55W/830	55	5"1/2	-	3000	3500	120,000
18611	TL55W/840	55	5"1/2	-	4000	3500	120,000
18705	TL85W/830	85	6"3/4	-	3000	6000	120,000
18711	TL85W/840	85	6"3/4	-	4000	6000	120,000
18805	TL125W/830	125	6"3/4	-	3000	8800	120,000
18811	TL125W/840	125	6"3/4	-	4000	8800	120,000
18504	TL35W/830/EXT/E39	35	6"5/8	E39	3000	1750	120,000
18510	TL35W/840/EXT/E39	35	6"5/8	E39	4000	1750	120,000
18604	TL55W/830/EXT/E39	55	7"7/16	E39	3000	3500	120,000
18610	TL55W/840/EXT/E39	55	7"7/16	E39	4000	3500	120,000
18704	TL85W/830/EXT/E39	85	8"11/16	E39	3000	6000	120,000
18710	TL85W/840/EXT/E39	85	8"11/16	E39	4000	6000	120,000
18804	TL125W/830/EXT/E39	125	8"11/16	E39	3000	8800	120,000
18810	TL125W/840/EXT/E39	125	8"11/16	E39	4000	8800	120,000
(internal electronic ballast)							
18203	TL15W/830	15	5"3/8	E26	3000	750	30,000
18207	TL15W/840	15	5"3/8	E26	4000	750	30,000
18303	TL23W/830	23	5"3/8	E26	3000	1150	30,000
18307	TL23W/840	23	5"3/8	E26	4000	1150	30,000
18403	TL35W/830	35	6"	E26	3000	1750	30,000
18407	TL35W/840	35	6"	E26	4000	1750	30,000



Wattage available

15W / 23W / 35W / 55W / 85W / 125W / 165W / 200W

Distributed by: Eco-Smart, Inc. (888)329-2705 ph / (941)377-9460 fx / info@eco-smart.com





PRODUCT DATA

Full product name TL165W

General Characteristics

Ordering Code 165W/4000K/Flat Base/Ext/200-277V

Case Bar Code

Electrical Characteristics

System Power 165W

Power Factor 0.95

AC power supply 200-277Vac

Supply frequency 0 - 70Hz

Light Technical Characteristics

Color Code 840 [CCT of 4000K]

Color Rendering Index 77

Color Designation Cool White

Color Description 840 Cool White

Luminous Efficacy 70Lm/W

Average Lumens 11550 Lm

Product Dimensions

Lamp-A length 205mm

Lamp-A Diameter 145 mm

Ballast Dimension 155x115x51 mm