

SUPERSTAR CLASSIC B25 ADVANCED FROSTED



- Replacement for 25W incandescent lamp
- Dimension comparable Classic B incandescent
- High quality of light with CRI 80
- Good thermal management
- Dimmable

Product Offering

Type reference	Power	CCT	Luminous flux	CRI
Classic B25 adv frosted E14	4,5W	2700K	250	80

1. Key Features and Benefits

- 4,5W LED lamp as high-quality replacement of 25W incandescent lamp
- E14 base
- Dimmable¹
- 2700K warm white
- reduces energy consumption up to 80%
- robust against vibrations
- 25,000 hours lifetime
- UV and NIR radiation free
- Mercury free
- 4 years Osram Guarantee²

¹ See www.osram.com/dim

² See www.osram.com/guarantee

2. Common Characteristics

Average lifetime ⁴	Luminous Flux	Switching cycles (30s on, 30s off)		Casing material	Starting time	Warm up time for 60% light	Power factor
25,000h	250lm	100.000		Plastic	<1s	none	0.45
Mercury max.	Base Type	Length	Diameter	Weight	Tc temperature max. ⁵	Nominal current (steady state)	Max. current (steady state)
0.0mg	E14	109mm	35mm	62g	87° C	40mA	150mA

3. Mounting information

Good heat exchange supports ideal performance



Tc Point

⁴ The average lifetime of LED lamps is defined as the number of hours when the light output of 50% of a large group of identical lamps goes below 70% of its initial luminous flux (L70B50, IEC60969). The lifetime is estimated at room temperature (25°C), free air burning, base up burning position and at rated voltage. To achieve a full lifetime a good heat exchange for the electronic components is required.

⁵ The Tc is defined as the highest permissible temperature which may occur on the outer surface of the LED lamp (in the indicated position) under normal operating conditions and at the rated voltage/current/power or the maximum of the rated voltage/current/power range (DIN EN 62031: 2009-01)

4. Disposal information

WEEE-lamps can be returned at specific collection points.

LED lamps have to be disposed as special waste.



5. Application Information

Applications

- general illumination
- domestic applications
- commercial areas
- residentials
- office space

Application Notes

1. suitable for indoor application.
2. for outdoor applications and operation in damp locations special approved fixture are required.
3. Input voltage: 220-240V
4. Operating temperature range between -20°C and 40°C
5. Storage temperature & humidity conditions
-20°C up to +40°C
95% relative humidity
6. Working temperature & humidity conditions
-20°C up to +40°C
95% relative humidity

6. Cost savings: example

Reference product description	Similar incandescent product	Watts saved	Cost saved after 5 years	Cost saved after 10 years	Cost saved after end of life
CLASSIC B25 adv frosted	CLASSIC B25	20,5W	11,14 €	44,23 €	143,50 €

Based on the assumption of 2,7hours/day on and an energy cost of 0.19€/kWh

7. Ordering Guide

Type reference	Product Number – 1pcs	Product Number – 1 shipping unit	Number of pcs / ship. unit
CLASSIC B25 adv frosted E14	4008321994011	4008321994028	6

8. Lamp conformity

2004/108/EC Electromagnetic compatibility (EMC)
2009/125/EC Ecodesign requirements for energy related products
2011/65/EC Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)
1907/2006 Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH Regulation)
2002/96/EC Waste Electrical and Electronic Equipment Directive (WEEE)
EN 62471 Photobiological safety of lamps and lamp systems
IEC/TR 62471-2 Photobiological safety of lamps and lamp systems - Part 2: Guidance on manufacturing requirements relating to non-laser optical radiation safety
EN 55015 Limits and methods of measurement of radio disturbance
EN 61000-3-2 Electromagnetic compatibility – Limits for harmonic current emission
EN 61000-3-3 Electromagnetic compatibility – Limitation of voltage changes, voltage fluctuations, flicker in public low voltage supply systems
EN61547 Electromagnetic compatibility immunity requirements

Status: July 2012

9. Dimming behaviours ⁶

Legend	
L / leading edge	T / trailing edge

Dimming behaviour					
Dimmer info Number of lamp under test: 1/2/4/6/10			Dimming range (%)		Note
Brand	Model	Type	Min	Max	
JUNG	254 DU IE I	T	10	100	
Schneider	ATD315	T	19	100	
Lichtregler	T46S	T	10	100	
GIAR	030700/I02	T	5	100	
BUSCH	2247U	L	5	100	
Jung	225 NV DE	L	13	95	
PEHA	207913/433	L	16	100	
Duwi	H1-53845	L	10	100	
BUSCH	617U-101	L	14	100	
PEHA	207913/435	L	15	100	
Berker	286110	T	11	100	
PEHA	433 HAB	T	6	85	
REV	13623	L	14	100	
ELSO	174120	L	10	100	
BUSCH	2250U	L	10	100	

⁶ Typical values. Test performed exemplary on PARATHOM CLASSIC P25 adv frosted

The test results reflect the measurement of the individual devices that were used in tests. OSRAM does not take over any responsibility, warranty or liability that this results can also be achieved by using the devices under other conditions or when using successor models of the tested devices or different models of the same manufacturer.

The test results were achieved by using the above mentioned LED-lamp types. OSRAM does not take over any responsibility, warranty or liability that this results can also be achieved by using the devices under other conditions or when using other LED-lamp types.

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