Product Information

PARATHOM® PAR16 50 36°adv

Product Overview

Product	Wattage	CCT	lm	Base
PARATHOM® PAR16 50 36°adv 827	**5,3**	**2700**	**350**	**GU10**
PARATHOM® PAR16 50 36°adv 830	**5,3**	**3000**	**350**	**GU10**
RS 829-4102 **PARATHOM® PAR16 50 36°adv 840**	**5,3**	**4000**	**350**	**GU10**

Benefits

- For all household luminaires
- Low energy consumption and maintenance costs
- Compact 220-240V-LED reflector lamp in PAR16 shape
- Equipped with high-efficiency patented LEDs, quality assured
- Long lifetime
- Dimmable[1]

Key Features

- 5,3 W LED lamps as high-quality replacement for a 50W halogene spot lamp
- GU10 base for easy replacement
- Available in 2700K or 3000K warm white and 4000K cool white color temperature
- Reduces energy consumption ~90%
- Energy efficiency class A+
- 35,000 hours lifetime[3]
- Similar dimensions as halogen lamp
- Shockproof and vibration-proof
- UV and NIR radiation free
- Mercury free
- 5 years Osram Guarantee (www.osram.com/guarantee)

Product	Wattage	CCT	lm	Base	Diameter	Lenght	Weight	Beam Angle	EAN10	EAN40 (ship.unit)	Ship. unit
PARATHOM® PAR16 50 36°adv 827	5,3 W	2700 K	350	GU10	50 mm	58 mm	69 g	36°	4008321882097	4008321882103	10
PARATHOM® PAR16 50 36°adv 830	5,3 W	3000 K	350	GU10	50 mm	58 mm	69 g	36°	4008321882127	4008321882134	10
PARATHOM® PAR16 50 36°adv 840	5,3 W	4000 K	350	GU10	50 mm	58 mm	69 g	36°	4008321882158	4008321882165	10

[1]With many common dimmers, see also www.osram.com/dim

[2] Typical values. All the technical parameters apply to the entire lamp. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

[3] 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.

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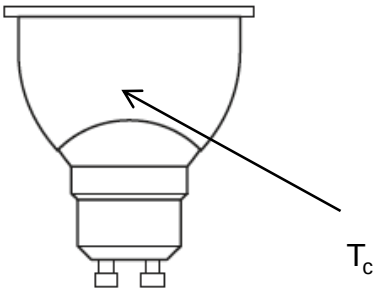
Common Characteristics[3]

Average lifetime[4]	Switching cycles (30s on, 30s off)	Casing material	Starting time	Warm up time for 60% light	Power factor
35,000 hrs	100,000	Plastic	< 0,5 s	< 1 s	0.88
Nominal current	**Max. inrush current**	**Tc temperature**	**CRI**	**Mercury max.**	**Luminous intensity**
27 mA	-	89 ℃	≥ 80	0.0 mg	850 cd



Good heat exchange supports ideal performance

Disposal information

- Lamps with WEEE sign can be returned at specific collection points.
- LED lamps have to be disposed as special waste.

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[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)

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Dimming behaviours

Man.	MPN	Type	Range / VA	Voltage / V	number of tested lamps	Dimming range (%)	
						Min	Max
Lichtregler	he T10	L	60-300W	230V/50Hz	1	20,17%	101,5%
Busch	2250	L	60-600W	230V/50Hz	1	9,83%	101,6%
jung	225 NV DE	L	20-500W	230V/50Hz	1	12,94%	100,4%
PEHA	435HAN o.A	L	60-600W	230V / 50Hz	1	23,43%	100,8%
siemens	5TC8 284	T	20-600W	230V/50Hz	1	0,00%	100,4%
meren	577199	T	20-315VA	230V / 50Hz	1	14,89%	100,2%
jung	225TDE	T	20-525W	230V/50Hz	1	8,92%	100,0%
Lichtregler	T39.01	L	20-500VA	230V / 50Hz	1	14,08%	100,0%
merten	5725-99	L	20-500W	230V/ 50Hz	1	0,00%	100,7%
SIEMENS	5TC8 256	L	50-400W	230V / 50Hz	1	0,00%	100,7%
GIRA	Ne.030000/I01	L	60-400W	230V / 50Hz	1	26,01%	99,1%
BUSCH	6517 U-101	L	60-400VA	230V / 50Hz	1	0,00%	99,8%
Berker	Nr.2874	T	20-250W	230V / 50Hz	1	7,36%	99,4%
KOPP/Sicherung	8033	L	40~400W	230V/ 50Hz	1	13,24%	98,2%
Everflourish	EFM700DB	L	50~300W	230V/ 50Hz	1	16,52%	99,6%
Berker	Nr.2875	L	60-600W	230-240V / 50Hz	1	9,50%	100,2%
Berker	Nr.281902	L	60-400W	230V / 50Hz	1	33,63%	100,0%
Merten	5771-99	T	20~315W	230V/ 50Hz	1	14,73%	100,3%
ABB	STD50-3	L	500VA	230V / 50Hz	1	12,41%	100,3%
Legrand	775903	T	420VA	230V/ 50Hz	1	9,42%	100,5%
OSRAM	MCU Te250	T	20~250W	220~240V/50~60Hz	1	7,92%	100,3%
Berker	2875	L	60W-600W	230V-240V/ 50Hz	1	7,17%	98,1%
PEHA	433HAB	T	20-315W	230V/ 50Hz	1	8,81%	100,2%
CONRAD	T46	T	20~315W	230V/ 50Hz	1	15,52%	100,3%
PEHA	D 80.433V	L	60~300W	230V/ 50~60Hz	1	0,99%	100,8%
GIRA	0300 00/I01	L	60~400W	230V/ 50Hz	1	0,00%	100,9%
GIRA	0307 00/I02	T	60~400W	230V/ 50Hz	1	7,18%	100,3%
BUSCH-Dimmer	6513U-102	T	40~420W	230V/ 50Hz	1	28,15%	99,9%
He	T46	T	20-315W	230V / 50Hz	1	15,76%	99,8%
EVERFLOURISH	EFM700DC	T	20-300W	230V / 50Hz	1	11,43%	100,1%
(Feller)Schneider-Electric	40600 RL	L	40-600W	230V~/50Hz	1	8,77%	99,5%
LUMEX Loadsmart	LT1D450LS Series	\	450W	200-240V/ 50Hz	1	0,00%	57,7%
Busch-jaeger	6513 U-102	T	40-420W	220-240V / 50Hz	1	9,38%	99,2%
Busch-jaeger	6523 U LED	L	2-100W	220-240V / 50Hz	1	42,48%	100,6%
Berker	2875	L	60-600W	220-240V / 50Hz	1	10,93%	100,2%
Legrand	775903 U	U	420W	220-240V / 50Hz	1	9,27%	99,7%
jung	225 NV DE	L	20-500W	220-240V / 50Hz	1	0,00%	99,7%
siemens	5TC8 284	T	20-525W	220-240V / 50Hz	1	4,04%	99,7%
GIRA	117600 U	U	50-420W	220-240V / 50Hz	1	5,45%	100,0%
Ehmann	4660c0026	T	20-315W	220-240V / 50Hz	1	14,50%	99,3%
Schneider	STD400T U	U	400W	220-240V / 50Hz	1	5,59%	100,3%
OSRAM	HTI DALL 315 DIM DALI	DALI T	20-315W	220-240V / 50Hz	1	11,36%	100,1%

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Application information

- Suitable for indoor application.
- For outdoor applications and operation in damp locations special approved fixture are required.
- Input voltage: 220-240 V
- Storage temperature & humidity conditions (-20℃ u p to +40°C, at max. 95% relative humidity)
- Operating temperature & humidity conditions (-20°C up to +40℃, at max. 95% relative humidity)

Lamp conformity

- 2004/108/EC Electromagnetic compatibility (EMC)
- 244/2009 Ecodesign requirements for non-directional household lamps
- IEC/ PAS 62612 Self ballasted LED-lamps for general lighting services – Performance requirements
- 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
- EN 55015 Limits and methods of measurement of radio disturance
- EN 61000-3-2 Electromagnetic compatibility – Limits for harmonic current emission
- EN 61000-3-3 Electromagnetic compatibility – Limitation of voltage changes, voltage fluactuations, flicker in public low voltage supply systems
- EN61547 Electromagnetic compatibility immunity requirements
- 1194/2012 Eco design requirement for directional lamps, light emitting diode lamps and related equipment (DIM II)
- IEC 62560 self-ballasted LED-lamps for general lighting services by voltage >50V – Safety specifications
- 874/2012/EU Energy labeling of electrical lamps and luminaires