

SUPERSTAR® REFLECTOR

Dimmer Compatibility



BASIC INFORMATION:

1. HOW MANY LAMPS CAN I INSTALL ON ONE DIMMER?

For max. number of lamps on a dimmer, please use the following rule of thumb:
(Please note: actual number may vary from calculated result)

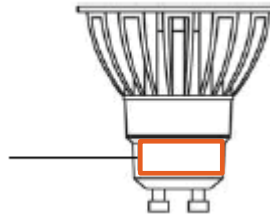
$$\frac{\text{Max load of dimmer}}{\text{equivalent wattage (HAL/GLS)}} = \text{max. number of lamps}$$

2. WHAT IS THE PRODUCT CODE AND WHERE DO I FIND IT?

The product code describes the lamp type. It contains 7 letters and digits and is starting with A...

Example for the product code on the stamp of the lamp:

OSRAM
PAR16 20 36° AA44077
110lm · 2700K



3. HOW CAN I READ THE FOLLOWING CHARTS?

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Legend:
Information about the dimmability of the lamps. Green means very good dimmability habits, red means partial critical dimmability habits.

Dimmability traffic light system:

- Green** very good dimmability habits (Dimming range ≥ 75%)
- Yellow** good dimmability habits (Dimming range ≥ 60%)
- Red** partial critical dimmability habits (Ticking or acoustic noises may occur) (Dimming range < 60%)
- White** not tested

Lamp

Type	SUPER STAR PAR16 35 36°	SUPER STAR PAR16 50 36°	SUPER STAR MR16 20 36°	SUPER STAR MR16 35 36°
Product Picture				
EAN	4008321682653	4008321682745	4008321682264	4008321682349
Product Code	AA44077	AA44094	AA65307	AA65316
EAN	4008321682684	4008321682714	4008321682295	4008321682370
Product Code	AA44079	AA44092	AA65310	AA65318

Information about the OSRAM lamp type

Dimmer

Brand	Model	Voltage range	Power	Type	Number of Lamps on dimmer:		Number of Lamps on dimmer:		Number of Lamps on dimmer:		Number of Lamps on dimmer:	
					1 Lamp	5 Lamps	1 Lamp	5 Lamps	1 Lamp	4 Lamps	1 Lamp	4 Lamps
ABB	STD 50-3	230V/50Hz	60-500	L	Green	Green	Green	Green	Green	Green	Green	Green
NURORA	DSP 400	230V/50Hz	400	R	Green	Green	Green	Green	Green	Green	Green	Green
Berker	2874	230V/50Hz	20-525	T	Green	Green	Green	Green	Green	Green	Green	Green
Berker	281902	230V/50Hz	60-400	L	Green	Green	Green	Green	Green	Green	Green	Green
Busch-Jaeger	2250 U	230V/50Hz	60-600	L	Green	Green	Green	Green	Green	Green	Green	Green
Busch-Jaeger	6523 U	230V/50Hz	2-100	LED-L	Green	Green	Green	Green	Green	Green	Green	Green
Busch-Jaeger	6513 U-102	230V/50Hz	40-420	T	Green	Green	Green	Green	Green	Green	Green	Green
Busch-Jaeger	6517 U-101	230V/50Hz	60-400	L	Green	Green	Green	Green	Green	Green	Green	Green
Ermann	4660c0026	230V/50Hz	20-315	T	Green	Green	Green	Green	Green	Green	Green	Green
ELKO	174200 (ATD300R)	230V/50Hz	40-315	T	Green	Green	Green	Green	Green	Green	Green	Green
EVERFLOURISH	EFM7000B	230V/50Hz	50-300	L	Green	Green	Green	Green	Green	Green	Green	Green
Sira	0300 00	230V/50Hz	60-400	L	Green	Green	Green	Green	Green	Green	Green	Green
Sira	030700	230V/50Hz	20-525	T	Green	Green	Green	Green	Green	Green	Green	Green
Sira	117600	230V/50Hz	50-420	U	Green	Green	Green	Green	Green	Green	Green	Green
Hamilton	KP1X40	230V/50Hz	400		Green	Green	Green	Green	Green	Green	Green	Green

Number of lamps tested on dimmer

List of dimmers being tested in the laboratory

Test results of dimmability according to the traffic light system

Example: Dimmer ABB STD 50-3 shows very good dimmability habits for one SUPERSTAR PAR16 35 36° lamp.





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Dimmability traffic light system:

- Green very good dimmability habits
(Dimming range ≥ 75%)
- Yellow good dimmability habits
(Dimming range ≥ 60%)
- Red partial critical dimmability habits
(flickering or acoustic noises may occur)
(Dimming range < 60%)
- White not tested

Lamp

Type	SUPERSTAR PAR16 35 36°	SUPERSTAR PAR16 50 36°	SUPERSTAR MR16 20 36°	SUPERSTAR MR16 35 36°
Product Picture				
EAN	4008321882653	4008321882745	4008321882264	4008321882349
Product Code	AA44077	AA44094	AA65307	AA65316
EAN	4008321882684	4008321882714	4008321882295	4008321882370
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Dimmer

Brand	Model	Voltage range	Power	Type	Number of Lamps on dimmer:		Number of Lamps on dimmer:		Number of Lamps on dimmer:		Number of Lamps on dimmer:	
					1 Lamp	5 Lamps	1 Lamp	5 Lamps	1 Lamp	4 Lamps	1 Lamp	4 Lamps
ABB	STD 50-3	230V/50Hz	60-500	L	Green	Green	Green	Green	Green	Green	Green	Green
AURORA	DSP 400	230V/50Hz	400	R	Green	Green	Green	Green	Green	Green	Green	Green
Berker	2874	230V/50Hz	20-525	T	Green	Red	Green	Green	Green	Green	Green	Green
Berker	281902	230V/50Hz	60-400	L	Green	Green	Yellow	Green	Green	Green	Green	Green
Busch-Jaeger	2250 U	230V/50Hz	60-600	L	Green	Green	Yellow	Red	Yellow	Green	Yellow	Green
Busch-Jaeger	6523 U	230V/50Hz	2-100	LED-L	Red	Red	Red	Green	Red	Red	Red	Green
Busch-Jaeger	6513 U-102	230V/50Hz	40-420	T	Red	Red	Red	Green	Red	Red	Red	Yellow
Busch-Jaeger	6517 U-101	230V/50Hz	60-400	L	Green	Green	Green	Green	Green	Green	Green	Green
Ehmann	4660c0026	230V/50Hz	20-315	T	Green	Green	Green	Green	Red	Red	Red	Red
ELKO	174200 (ATD300R)	230V/50Hz	40-315	T	Green	Green	Green	Green	Green	Green	Green	Green
EVERFLOURISH	EFM700DB	230V/50Hz	50-300	L	Green	Red	Green	Green	Green	Green	Green	Green
Gira	0300 00	230V/50Hz	60-400	L	Green	Red	Green	Green	Green	Green	Green	Green
Gira	030700	230V/50Hz	20-525	T	Green	Green	Green	Green	Green	Green	Green	Green
Gira	117600	230V/50Hz	50-420	U	Red	Red	Green	Green	Red	Red	Green	Green
Hamilton	KP1X40	230V/50Hz	400		Green	Green	Green	Green	Green	Green	Green	Green
Jung	225 NVDE	230V/50Hz	20-500	L	Green	Green	Green	Green	Red	Red	Green	Green
Jung	225 TDE	230V/50Hz	20-525	T	Green	Green	Green	Green	Green	Green	Green	Green
Kopp	80.33	230V/50Hz	20-275	T	Green	Red	Green	Green	Green	Green	Green	Green
Legrand	775903	230V/50Hz	420	T	Green	Red	Green	Green	Green	Green	Green	Green
LUMEX Loadsmart	LT1D450LS Series	230V/50Hz	450		Red	Yellow	Red	Yellow	Yellow	Green	Yellow	Green
Merten	5771-99	230V/50Hz	20-315	T	Red	Green	Green	Green	Green	Green	Green	Green
Merten	5725-99	230V/50Hz	20-500	L	Green	Red	Green	Green	Green	Green	Green	Green
MK	K4501	230V/50Hz	180	L	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	HTi DALI 315 DIM	230V/50Hz	20-315	DALI-T	Yellow	Green	Yellow	Yellow	Red	Red	Red	Green
PEHA	D 80.433 V	230V/50Hz	60-600	L	Green	Red	Yellow	Green	Green	Green	Green	Green
PEHA	433 HAB	230V/50Hz	20-315	T	Green	Green	Green	Green	Green	Green	Green	Green
PEHA	435 HAN	230V/50Hz	60-600	L	Green	Green	Green	Green	Yellow	Yellow	Yellow	Green
Schneider	40300 RC	230V/50Hz	20-300	T	Green	Green	Green	Green	Green	Green	Red	Red
Schneider	40600 RL	230V/50Hz	40-600	L	Green	Green	Yellow	Green	Green	Green	Green	Green
Schneider	ATD315	230V/50Hz	10-315	T	Green	Green	Green	Green	Red	Red	Red	Red
Schneider	STD400T RC/RL	230V/50Hz	20-400	U	Green	Green	Red	Green	Red	Red	Red	Green
Siemens	5TC8 284	230V/50Hz	20-525	T	Red	Green	Red	Green	Green	Red	Green	Green
Siemens	5TC8 256	230V/50Hz	50-400	L	Yellow	Red	Red	Green	Green	Green	Green	Green
VARILIGHT	HQ3W	230V/50Hz	400		Green	Green	Green	Green	Green	Green	Green	Green
VARILIGHT	JQP401W	230V/50Hz	400	T	Green	Green	Green	Green	Green	Green	Green	Green
ZANO	WH401	230V/50Hz	400	L	Green	Green	Green	Green	Green	Green	Green	Green
ZANO	WH251	230V/50Hz	250		Green	Green	Green	Green	Green	Green	Green	Green
ZANO	Z GRID 500	230V/50Hz	500		Green	Green	Green	Green	Green	Green	Green	Green
ZANO	Z GRID 700	230V/50Hz	250	LED	Green	Green	Green	Green	Green	Green	Green	Green

Oct. 2014

* MR16 (12V) version tested with HTM 70 transformer

PARATHOM® REFLECTOR ADVANCED Dimmer Compatibility



Please Note:

- The compatibility list is based upon testing conducted by the manufacturer in a lab simulated environment, and the results can vary in certain field applications due to a number of factors. OSRAM does not take over any responsibility, warranty or liability that this results can also achieved by using the devices under other conditions, or when using successor models of the tested devices, or different models of the same manufacturer, or when using other LED lamp types
- The absence of a dimmer from this chart does not necessarily imply incompatibility.
- Please reference the dimmer manufacturer's instructions for installation.
- LED lamps contain several electronic components. Under unfavourable conditions these can lead to acoustic noise. In case of resonance even low noise can cause audible effect. Possible factors influencing this are the installation, the design of the lamp holder and the luminaire (acoustic resonance effect) as well as the dimmer or the transformer (harmonics or electronic resonance).
- Subject to change without notice
- Errors and omission excepted
- Always make sure to use the most recent release

Application Notes:

- For best dimming results trailing edge dimmer type is recommended.
- Trailing edge type dimmer requires the neutral wire for installation.