

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)

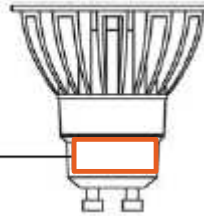
$$\frac{\text{Max load of dimmer}}{\text{equivalent wattage (HAL/GLS)}} = \text{max. number of lamps}$$

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:

- very good dimmability habits (Dimming range ≥ 75%)
- good dimmability habits (Dimming range ≥ 60%)
- partial critical dimmability habits (tickling or acoustic noises may occur) (Dimming range < 60%)
- 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	4008321682650	4008321682745	4008321682254	4008321682349
Product Code	AA44077	AA44054	AA65307	AA65316
EAN	4008321682684	4008321682714	4008321682295	4008321682370
Product Code	AA44079	AA44082	AA65310	AA65315

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
AURORA	DSP 400	230V/50Hz	400	R	Green	Green	Green	Green	Green	Green	Green	Green
Barker	2874	230V/50Hz	20-525	T	Green	Green	Green	Green	Green	Green	Green	Green
Barker	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
Ernmatt	4660C026	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	EFM700DB	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.

SUPERSTAR® Reflector Dimmer Compatibility

Dimmability traffic light system:

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

Type	SUPERSTAR PAR16 35	SUPERSTAR PAR16 50	SUPERSTAR PAR16 65	SUPERSTAR PAR16 80	SUPERSTAR MR16 20	SUPERSTAR MR16 35	SUPERSTAR MR16 50
Product Picture							
EAN	4008321882653	4008321882714	4052899944336	4052899944350	4052899944275	4052899944299	4052899944312
Product Code	AB30664	AB30665	AB30666	AB30667	AB30692	AB30693	AB30695
EAN	4008321882684	4008321882745	4052899944343		4052899944282	4052899944305	4052899944329
Product Code	AB34964	AB34965	AB34986		AB35099	AB35113	AB35117

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:		Number of Lamps on dimmer:		Number of Lamps on dimmer:	
					1 Lamp	3 Lamps	1 Lamp	3 Lamps	1 Lamp	3 Lamps	1 Lamp	4 Lamps	1 Lamp	5 Lamps	1 Lamp	4 Lamps
Busch-Jaeger	6513U-102	230V / 50Hz	40-420	T	Red	Yellow	Yellow	Yellow	Green	Green	Yellow	Yellow	Red	Yellow	Yellow	Yellow
Busch-Jaeger	6523U-LED	230V / 50Hz	2-100	L	Red	Red	Red	Red	Green	Green	Red	Red	Green	Green	Green	Green
AURORA	DSP 400	240V/50Hz	400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Legrand	665114	230V / 50Hz	400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Jung	225 NVDE	240V/50Hz	20-500	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Siemens	5TC8 284	230V / 50Hz	20-525	T	Red	Yellow	Yellow	Yellow	Green	Green	Yellow	Yellow	Green	Green	Green	Green
Gira	117600	230V / 50Hz	50-420	U	Red	Yellow	Yellow	Yellow	Green	Green	Yellow	Yellow	Green	Green	Green	Green
ELKO	315GLE	230/50Hz	20-315	T	Red	Yellow	Yellow	Yellow	Green	Green	Yellow	Yellow	Green	Green	Green	Green
Schneider	STD400T	230/50Hz	400	U	Red	Green	Red	Yellow	Yellow	Yellow	Red	Red	Red	Green	Green	Green
Osram	Hti DALI 315 DIM	230V / 50Hz	20-315	DA LI T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ABB	STD 50-3	230V / 50Hz	60-500	L	Green	Green	Green	Green	Yellow	Yellow	Green	Green	Green	Green	Green	Green
Altenburger Electronic	50.30	230V / 50Hz	15-350	T	Red	Yellow	Yellow	Yellow	Green	Green	Yellow	Yellow	Green	Green	Green	Green
Berker	2861	230V / 50Hz	50-420	T	Red	Yellow	Yellow	Yellow	Green	Green	Red	Red	Green	Green	Green	Green
bticino	NT4402N	230V / 50Hz	500	L	Red	Yellow	Yellow	Yellow	Green	Green	Red	Red	Green	Green	Green	Green
Busch-Jaeger	2250 U	230V / 50Hz	60-600	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Busch-Jaeger	6591UJCGL-101-214	230V / 50Hz	40-420	T	Red	Yellow	Yellow	Yellow	Green	Green	Yellow	Yellow	Green	Green	Green	Green
CENTURY CONTROL DIMMER	MULTI DIMMER	230V / 50Hz	60-600	L	Yellow	Green	Green	Green	Green	Green	Yellow	Yellow	Green	Green	Green	Green
DINUY	RE EL1 LE1 Paladin 872110	240V/50Hz	400	L/T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Hugo Müller led	230V / 50Hz	400	L/T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ELKO	420GLE/I	230V / 50Hz	40-420	T	Green	Green	Green	Green	Green	Green	Red	Red	Red	Green	Green	Green
ELKO	600GLi	230V / 50Hz	40-600	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ELKO	630GLE	230V / 50Hz	20-630	T	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Eltako	EUD61N PN-UC	230V / 50Hz	5-400	L/T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Feller	40600 RLC	240V/50Hz	20-600	L	Green	Green	Green	Green	Yellow	Yellow	Green	Green	Green	Green	Green	Green
Gira	030500	230V / 50Hz	50-420	T	Red	Yellow	Yellow	Yellow	Green	Green	Yellow	Yellow	Green	Green	Green	Green
Gira	030700	230V / 50Hz	20-525	T	Green	Green	Green	Green	Green	Green	Red	Red	Green	Green	Green	Green
Gira	217400	230V / 50Hz	4X20-250	T	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Hager	WUD87	230V / 50Hz	400	T	Yellow	Green	Green	Green	Green	Green	Yellow	Yellow	Green	Green	Green	Green
Hamilton	KP1X40	230V / 50Hz	400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Jung	225 TDE	230V / 50Hz	20-525	T	Yellow	Green	Green	Green	Green	Green	Yellow	Yellow	Green	Green	Green	Green

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Dimmability traffic light system:

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EAN Product Code	4008321882684 AB34964	4008321882745 AB34965	4052899944343 AB34966		4052899944282 AB35099	4052899944305 AB35113	4052899944329 AB35117

Dimmer

Model	Brand	Voltage range	Power	Type	Number of Lamps on dimmer:		Number of Lamps on dimmer:		Number of Lamps on dimmer:		Number of Lamps on dimmer:		Number of Lamps on dimmer:		Number of Lamps on dimmer:	
					1 Lamp	3 Lamps	1 Lamp	3 Lamps	1 Lamp	3 Lamps	1 Lamp	4 Lamps	1 Lamp	5 Lamps	1 Lamp	4 Lamps
Legrand 078405	230V/50Hz	400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Legrand 099314	230V / 50Hz	400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Legrand 281080	230V / 50Hz	400	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Legrand 281084	230V / 50Hz	600	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Legrand 617030	230V / 50Hz	40-420	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Legrand 617031	230V / 50Hz	2500	L	Red	Yellow	Red	Red	Red	Red	Yellow	Red	Red	Red	Red	Red	Red
Legrand 770061	230V / 50Hz	1000	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Legrand 770062	230V / 50Hz	40-400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
MASTER DM-2500	230V / 50Hz	60-1000	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
MASTER DM-DGL	230V / 50Hz	9-10	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Merten MEG 5131	230V / 50Hz	180	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Merten MEG 5135	230V / 50Hz	400	L	Green	Green	Green	Green	Green	Green	Red	Yellow	Red	Red	Red	Red	Red
Merten MEG 5140	230V / 50Hz	5-200	L/T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Merten MEG 5170-0300	230V / 50Hz	5-200	L/T	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
MK K4501	230V / 50Hz	35-105	DALI-T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
NEXUS 881P-01	240V/50Hz	20-315	DALI-T	Green	Green	Red	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green
NIKO 310-01900 / 01901	230V / 50Hz	60-600	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
NIKO 330-00700 / 00701	230/50Hz	400	U	Green	Green	Green	Green	Green	Green	Yellow	Green	Green	Green	Green	Green	Green
PEHA 435 HAN	240V/50Hz	20-525	T	Green	Red	Green	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green
Shuttle SDIM-T-LED-500W	230V / 50Hz	20-500	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Siemens 5WG1-527-1AB31	230V / 50Hz	1-200	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
VADSBO LD 220	230V / 50Hz	400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
VARILIG HT HQ3W	230V / 50Hz	400	T	Green	Yellow	Red	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green
VARILIG HT JQP401W	230V / 50Hz	3-100	L/T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Green
Vimar 20135	230V / 50Hz	10-200	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ZANO WH251	230V / 50Hz	250	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ZANO WH401	230V / 50Hz	400	L	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ZANO Z GRID 500	230V / 50Hz	500	T	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
ZANO Z GRID 700	230V / 50Hz	250	T	Green	Green	Red	Red	Green	Green	Green	Green	Green	Green	Green	Red	Red

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.