

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)

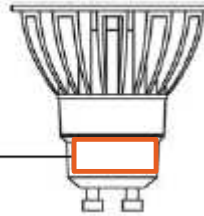
$$\frac{\text{Max load of dimmer}}{\text{equivalent wattage (HAL/GLS)}} = \text{max. number of lamps}$$

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?

SUPERSTAR® REFLECTOR Dimmer Compatibility

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 (tickering 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
Elmann	4660C026	230V/50Hz	20-315	T	Green	Green	Green	Green	Green	Green	Green	Green
ELKO	174200 (ATD-300R)	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

Lamp

Type	SUPERSTAR R50 40 30°	SUPERSTAR MR11 20
Product Picture		
EAN	4052899939929	4052899939943
Product Code	AB33557	AB33561
EAN	4052899939936	
Product Code	AB33558	

Dimmer



Brand	Model	Voltage range	Power	Type	Number of Lamps on dimmer:		Number of Lamps on dimmer:	
					1 Lamp	4 Lamps	1 Lamp	4 Lamps
Busch-Jaeger	6513 U-102	230/50Hz	40-420	T	Green	Green	Red	Green
Busch-Jaeger	6523 U	230/50Hz	2-100	LED-L	Green	Green	Green	Green
AURORA	DSP400	230V / 50Hz	400	T	Green	Green	Green	Yellow
Legrand	665114	230V/50Hz	400	L	Green	Green	Green	Green
Jung	225 NVDE	240V/50Hz	20-500	L	Green	Green	Red	Red
Siemens	5TC8 284	240V/50Hz	20-525	T	Green	Green	Yellow	Green
Gira	117600	240V/50Hz	50-420	U	Green	Green	Red	Yellow
ELKO	315GLE	240V/50Hz	20-315	T	Green	Green	Green	Green
Schneider	STD400T	230/50Hz	400	U	Green	Green	Red	Red
OSRAM	HTi DALI 315 DIM	240V/50Hz	20-315	DALI-T	Green	Green	Green	Green
ABB	STD50-3	230V / 50Hz	60-500	L	Green	Green	Green	Green
Altenburger Ele	50,30	230V / 50Hz	15-350	T	Green	Green	Red	Green
Berker	2561	230V / 50Hz	50-420	T	Yellow	Red	Yellow	Red
Bticino	NT4402N	230V / 50Hz	500	L	Red	Red	Yellow	Red
Busch-Jaeger	2250U	230V / 50Hz	60-600	L	Green	Green	Green	Green
Bush-laeger	6591ujc GL-10	230V / 50Hz	40-420	T	Green	Green	Green	Green
CENTURY CONTROL	MULTI DIMMER	230V / 50Hz	60-600	L	Green	Green	Green	Green
DINUY	RE ELIELI	230V / 50Hz	400	L/T	Green	Green	Red	Red
Hugo Müller	Paladin 872110 led	230/50Hz	400	L/T	Green	Green	Red	Red
ELKO	600GLI	230V / 50Hz	40-600	L	Green	Green	Green	Green
ELKO	630GLE	230V / 50Hz	20-630	T	Green	Green	Green	Green
Eltako	EUD61NPN-UC	230V / 50Hz	5-400	L/T	Green	Green	Green	Green
Feller	40600RLC	230V / 50Hz	20-600	L	Green	Green	Green	Green
Gira	30500	230V / 50Hz	50-42	T	Green	Yellow	Green	Green
Gira	217400	230V / 50Hz	4X20-250	T	Green	Green	Green	Green
Gira	30700	230V / 50Hz	20-525	T	Green	Green	Yellow	Yellow
Hager	WUD87	230V / 50Hz	400	T	Green	Green	Red	Green
Hamilton	kplx40	230V / 50Hz	400	L	Green	Green	Green	Green
Jung	225TDE	230V / 50Hz	20-525	T	Green	Green	Yellow	Yellow
Legrand	99314	230V / 50Hz	300	L	Green	Green	Green	Green

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

Lamp

Type	SUPERSTAR R50 40 30°	SUPERSTAR MR11 20
Product Picture		
EAN	4052899939929	4052899939943
Product Code	AB33557	AB33561
EAN	4052899939936	
Product Code	AB33558	

Dimmer					Number of Lamps on dimmer:			
Brand	Model	Voltage range	Power	Type	Number of Lamps on dimmer:		Number of Lamps on dimmer:	
					1 Lamp	4 Lamps	1 Lamp	4 Lamps
Legrand	281004	230V / 50Hz	500	L	Green	Green	Green	Green
Legrand	281060	230V / 50Hz	500	L	Green	Green	Green	Green
Legrand	617030	230V / 50Hz	600	L	Green	Green	Green	Green
Legrand	617031	230V / 50Hz	1000	L	Green	Yellow	Green	Yellow
Legrand	770061	230V / 50Hz	400	L	Green	Green	Yellow	Green
Legrand	770062	230V / 50Hz	400	T	Green	Red	Green	Green
Legrand	078405	230V / 50Hz	600	L	Green	Green	Red	Green
LKO	420GLE/I	230V / 50Hz	40-420	T	Green	Green	Yellow	Green
MASTER	DM-2500	230V / 50Hz	2500	L	Green	Green	Green	Green
MASTER	DM-DGL	230V / 50Hz	1000	L	Red	Yellow	Red	Red
Merten	MEG5131	230V / 50Hz	40-400	L	Green	Green	Green	Green
Merten	MEG5135	230V / 50Hz	60-1000	L	Green	Green	Green	Red
Merten	MEG5140	230V / 50Hz	9-10	L	Yellow	Yellow	Green	Green
MK	K4501	230V / 50Hz	180	L	Green	Green	Green	Green
NEXUS	881P-01	230V / 50Hz	400	L	Green	Green	Green	Green
NIKO	310-01900/01901	230V / 50Hz	5-200	L/T	Green	Yellow	Red	Yellow
NIKO	330-00700/00701	230V / 50Hz	5-200	L/T	Green	Green	Yellow	Green
PEHA	435HAN	230V / 50Hz	60-600	L	Green	Green	Green	Green
Shuttle	SDIM-T-LED-500W	230V / 50Hz	2-500	T	Green	Green	Green	Green
Siemens	5WG1-527-1AB31	230V / 50Hz	20-500	T	Green	Green	Green	Green
VADSBO	LD220	230V / 50Hz	1-200	T	Green	Green	Red	Green
VARILIGHT	HQ3W	230V / 50Hz	400	L	Green	Green	Green	Green
VARILIGHT	JQP401W	230V / 50Hz	400	T	Yellow	Green	Green	Green
Vimar	20135	230V / 50Hz	3-100	L/T	Green	Yellow	Red	Yellow
Werten	MEG5170-030	230V / 50Hz	10-200	T	Green	Green	Green	Green
ZANO	WH251	230V / 50Hz	250	L	Green	Green	Green	Green
ZANO	WH401	230V / 50Hz	400	L	Green	Green	Green	Green
ZANO	Z GRID 500	230V / 50Hz	500	T	Green	Green	Green	Green
ZANO	Z GRID 700	230V / 50Hz	250	T	Green	Green	Red	Red

SUPERSTAR® Reflector 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.