

SUPERSTAR® SPECIAL 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:

220-240V · **AA68602** · 4000K
6W · 50/60Hz · 27mA
Made in Germany XXX-XXXX



3. HOW CAN I READ THE FOLLOWING CHARTS?

PARATHOM® CLASSIC ADVANCED Dimmer Compatibility

Dimmability traffic light system:	Type	PARATHOM CLASSIC A40 ADV	PARATHOM CLASSIC A60 ADV	PARATHOM CLASSIC A75 ADV	PARATHOM CLASSIC B25 ADV	PARATHOM CLASSIC B40 ADV	PARATHOM CLASSIC P25 ADV	PARATHOM CLASSIC P40 ADV
Green very good dimmability habits (Dimming range ≥ 75%)	Product Picture							
Yellow good dimmability habits (Dimming range ≥ 60%)	EAN	4052899924437	4052899911208	4052899924499	4008321979230	052899911413	4008321980373	4052899911451
Red partial critical dimmability habits (flickering or acoustic noises may occur) (Dimming range < 60%)	Product Code	AA68604	AA65582	AA752280	AA59411	AA65531	AA69413	AA65534
White not tested	EAN	4052899924444	4052899913820		4008321994035	4052899911437	4008321982352	4052899911475
	Product Code	AA68603	AA65584		AA69412	AA68550	AA69414	AA65535
	EAN	4052899924451	4052899924482				4052899911444	4052899911918
	Product Code	AA68602	AA65583				AA65415	AA65536
	EAN						4052899911468	4052899911925
	Product Code						AA65537	

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:		Number of Lamps on dimmer:		
Brand	Model	Voltage VAC/V	Power W	Type	1 Lamp	4 Lamps	1 Lamp	4 Lamps	1 Lamp	4 Lamps	1 Lamp	5 Lamps	1 Lamp	4 Lamps	1 Lamp	4 Lamps
ABB	STD 50-3	230V/50Hz	60-500	L												
Berker	2874	230V/50Hz	20-525	T												
Berker	281902	230V/50Hz	60-400	L												
Busch-Jaeger	2247U	230V/50Hz	20-500	L												
Busch-Jaeger	6523 U	230V/50Hz	2-100	LED												
Busch-Jaeger	6513 U-102	230V/50Hz	40-420	T												
Busch-Jaeger	6517 U-101	230V/50Hz	60-400	L												
Ehmann	4660c0026	230V/50Hz	20-315	T												
ELKO	315GLE	230V/50Hz	23-315	T												
ELKO	420GLE/I	230V/50Hz	20-420	T												
ELKO	600GLI	230V/50Hz	40-600	L												
ELKO	630GLE	230V/50Hz	20-630	T												
ELSO	174200 (174200-0000)	230V/50Hz	40-315	T												

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

Information about the OSRAM lamp type

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 PARATHOM CLASSIC A60 ADV lamp.

BASISINFORMATIONEN:

1. WIE VIELE LAMPEN KANN ICH AN EINEN DIMMER ANSCHLIESSEN?

Die maximale Anzahl an Lampen, die Sie an einen Dimmer anschließen können, ergibt sich aus der folgenden Faustregel:

$$\frac{\text{max. Leistungsabgabe des Dimmers}}{\text{äquivalente Lampenleistung (HAL/GLS)}} = \text{max. Anzahl der Lampen}$$

(Beachten Sie, dass die tatsächliche Anzahl von dem errechneten Ergebnis abweichen kann.)

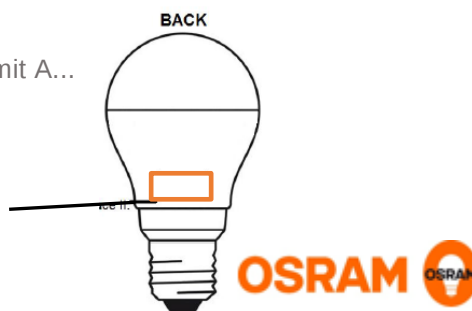
2. WAS IST DER PRODUKTCODE UND WO FINDE ICH IHN?

Der Produktcode beschreibt den Lampentyp.

Er besteht aus sieben Buchstaben und Ziffern und beginnt mit A...

Beispiel eines Produktcodes auf dem Aufdruck der Lampe:

220-240V · AA68602 · 4000K
6W · 50/60Hz · 27mA
Made in Germany XXX-XXXX



3. WIE LESE ICH DIE FOLGENDEN TABELLEN?

PARATHOM® CLASSIC ADVANCED Dimmer Compatibility

Legende:
Angaben zur
Dimmbarkeit der
Lampen – grün
bedeutet sehr gute
Eigenschaften, rot
bedeutet teilweise
kritische
Dimmeigenschaften

Dimmability traffic light system:	Type	Product Picture	Product Code	Product Code	Product Code	Product Code	Product Code	Product Code
Green	PARATHOM CLASSIC A60 ADV		4052899924437	4052899911208	4052899924499	4008321979230	052899911413	4008321980373
Yellow	PARATHOM CLASSIC A60 ADV		AA68604	AA68602	AA752280	AA69411	AA68631	AA69413
Red	PARATHOM CLASSIC A75 ADV		4052899924444	4052899913820		4008321994035	4052899911437	4008321992352
White	PARATHOM CLASSIC B25 ADV		AA68603	AA68604		AA69412	AA68650	AA69414
	PARATHOM CLASSIC B40 ADV		4052899924451	4052899924482			4052899911444	4052899911918
	PARATHOM CLASSIC P25 ADV		AA68602	AA68603			AA69415	AA68636
	PARATHOM CLASSIC P40 ADV						4052899911468	4052899911925
							AA69416	AA69417

Dimmer				Number of Lamps on dimmer: 1 - 4		Number of Lamps on dimmer: 1 - 4		Number of Lamps on dimmer: 1 - 4		Number of Lamps on dimmer: 1 - 5		Number of Lamps on dimmer: 1 - 4		Number of Lamps on dimmer: 1 - 4	
Brand	Model	Voltage	Power	Type	Lamps	Lamps	Lamps	Lamps	Lamps	Lamps	Lamps	Lamps	Lamps	Lamps	Lamps
ABB	STD 60-3	230V/50Hz	60-500	L											
Berker	2874	230V/50Hz	20-525	T											
Berker	281902	230V/50Hz	60-400	L											
Busch-Jaeger	2247U	230V/50Hz	20-500	L											
Busch-Jaeger	6523 U	230V/50Hz	2-100	LED L											
Busch-Jaeger	6513 U-102	230V/50Hz	40-420	T											
Busch-Jaeger	6517 U-101	230V/50Hz	60-400	L											
Ehmann	4660-0026	230V/50Hz	20-315	T											
ELKO	315GLE	230V/50Hz	23-315	T											
ELKO	420GLE/I	230V/50Hz	20-420	T											
ELKO	600GLI	230V/50Hz	40-600	L											
ELKO	630GLE	230V/50Hz	20-630	T											
ELSO	174200 (ATD300B)	230V/50Hz	40-315	T											

Liste der getesteten Dimmer

Angaben zum OSRAM-Lampentyp

Anzahl der an einem Dimmer getesteten Lampen

Ergebnisse des Dimmbarkeitstests an der Lichtsignalanlage

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 PAR20	SUPERSTAR PAR30	SUPERSTAR PAR38	SUPERSTAR R50	SUPERSTAR R63	SUPERSTAR R80
Product Picture						
EAN Product Code	4052899955011 AB43284	4052899954892 AB43282	4052899954908 AB43283	4052899954946 AB43285	4052899955059 AB43292	4052899955035 AB43291

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:			
					1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Busch-Jaeger	6513 U-102	230V/50Hz	40-420	T																				
Busch-Jaeger	6523 U	230V/50Hz	2-100	LED-L																				
ELKO	315GLE	230V/50Hz	20-315	T																				
Gira	117600	230V/50Hz	50-420	U																				
Jung	225 NVDE	230V/50Hz	20-500	L																				
Legrand	665114	230V/50Hz	400	L																				
Osram	Ti DALI 315 DI	230V/50Hz	20-315	DALI-T																				
Schneider	ELKO 400GLI	230V/50Hz	400	/																				
Schneider	STD400T	230V/50Hz	400	U																				
Siemens	5TC8 284	230V/50Hz	20-525	T																				
ABB	STD50-3	230V/50Hz	60-500	L																				
Altenburger Ele	50,3	230V/50Hz	15-350	T																				
AURORA	DSP400	230V/50Hz	400	T																				
Berker	2561	230V/50Hz	50-420	T																				
bticino	NT4402N	230V/50Hz	500	L																				
Busch-Jaeger	2250U	230V/50Hz	60-600	L																				
Bush-Jaeger	6591ujc GL-10	230V/50Hz	40-420	T																				
CENTURY CONTROL	MULTI DIMMER	230V/50Hz	60-600	L																				
DINUY	RE ELIELI	230V/50Hz	400	L/T																				
ELKO	600GLI	230V/50Hz	40-600	L																				
ELKO	630GLE	230V/50Hz	20-630	T																				
Eltako	EUD61NPN- UC	230V/50Hz	5-400	L/T																				
Feller	40600RLC	230V/50Hz	20-600	L																				
Gira	30700	230V/50Hz	20-525	T																				
Gira	30500	230V/50Hz	50-42	T																				
Gira	217400	230V/50Hz	4X20-250	T																				
Hager	WUD87	230V/50Hz	400	T																				
Hamilton	kplx40	230V/50Hz	400	L																				
Jung	225TDE	230V/50Hz	20-525	T																				
Legrand	770061	230V/50Hz	400	L																				

**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 accoustic noises
may occur)
(Dimming range $< 60\%$)

White not tested

Lamp

Type	SUPERSTAR PAR20	SUPERSTAR PAR30	SUPERSTAR PAR38	SUPERSTAR R50	SUPERSTAR R63	SUPERSTAR R80
Product Picture						
EAN Product Code	4052899955011 AB43284	4052899954892 AB43282	4052899954908 AB43283	4052899954946 AB43285	4052899955059 AB43292	4052899955035 AB43291
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:	Number of Lamps on dimmer:
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Legrand	617031	230V/50Hz	1000	L		
Legrand	770061	230V/50Hz	400	L		
Legrand	99314	230V/50Hz	300	L		
Legrand	281060	230V/50Hz	500	L		
Legrand	281004	230V/50Hz	500	L		
Legrand	617030	230V/50Hz	600	L		
Legrand	078405	230V/50Hz	600	L		
LKO	420GLE/I	230V/50Hz	40-420	T		
MASTER	DM-DGL	230V/50Hz	1000	L		
MASTER	DM-2500	230V/50Hz	2500	L		
Merten	MEG5131	230V/50Hz	40-400	L		
Merten	MEG5140	230V/50Hz	10	L		
Merten	MEG5135	230V/50Hz	60-1000	L		
MK	K4501	230V/50Hz	180	L		
NEXJUS	881P-01	230V/50Hz	400	L		
NIKO	310-01900/01901	230V/50Hz	5-200	L/T		
NIKO	330-00700/00701	230V/50Hz	5-200	L/T		
OSRAM	HTi DALI 105/230-240DIM Output 12v	230V/50Hz	35-105	DALI-T		
PEHA	435HAN	230V/50Hz	60-600	L		
shuttle	SDIM-T-LED-500W	230V/50Hz	2-500	T		
Siemens	5WG1-527-1AB31	230V/50Hz	20-500	T		
VADSBO	LD220	230V/50Hz	1-200	T		
VARILIGHT	JQP401W	230V/50Hz	400	T		
VARILIGHT	HQ3W	230V/50Hz	400	L		
Vimar	20135	230V/50Hz	3-100	L/T		
Werten	MEG5170-030	230V/50Hz	10-200	T		
ZANO	WH251	230V/50Hz	250	L		
ZANO	WH401	230V/50Hz	400	L		
ZANO	Z GRID 700	230V/50Hz	250	T		
ZANO	Z GRID 500	230V/50Hz	500	T		

**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 accoustic noises may occure) (Dimming range $< 60\%$)
White	not tested

Lamp

Type	SUPERSTAR MR11 20
Product Picture	
EAN	4052899970885
Product Code	AB33561

Dimmer

Brand	Model	Voltage range	Power	Type	Number of Lamps on			
					1	2	3	4
Berker	2875	230/50Hz	60-600	L	Green			Yellow
Busch-Jaeger	6513 U-102	230/50Hz	40-420	T	Red			Yellow
Busch-Jaeger	6523 U	230/50Hz	2-100	LED-L	Green			Green
ELKO	315GLE	230/50Hz	20-315	T	Green			Green
Gira	117600	230/50Hz	50-420	U	Red			Yellow
Jung	225 NVDE	230/50Hz	20-500	L	Red			Red
Legrand	665114	230/50Hz	400	L	Green			Green
Osram	HTi DALI 315 DIM	230/50Hz	20-315	DALI-T	Green			Green
Schneider	STD400T	230/50Hz	400	U	Red			Red
Siemens	5TC8 284	230/50Hz	20-525	T	Yellow			Green
ABB	STD50-3	230/50Hz	60-500	L	Green			Green
Altenburger Ele	50,3	230/50Hz	15-350	T	Red			Green
AURORA	DSP400	230/50Hz	400	T	Green			Yellow
Berker	2561	230/50Hz	50-420	T	Yellow			Green
bticino	NT4402N	230/50Hz	500	L	Yellow			Red
Busch-Jaeger	2250U	230/50Hz	60-600	L	Green			Green
Bush-laege	6591ujc GL-10	230/50Hz	40-420	T	Green			Green
CENTURY CONTROL	MULTI DIMMER	230/50Hz	60-600	L	Green			Green
DINUY	RE ELIELI	230/50Hz	400	L/T	Red			Red
ELKO	600GLI	230/50Hz	40-600	L	Green			Green
ELKO	630GLE	230/50Hz	20-630	T	Green			Green
Eltako	EUD61NPN-UC	230/50Hz	5-400	L/T	Green			Green
Feller	40600RLC	230/50Hz	20-600	L	Green			Green
Gira	30500	230/50Hz	50-42	T	Green			Green
Gira	30700	230/50Hz	20-525	T	Yellow			Yellow
Hager	WUD87	230/50Hz	400	T	Red			Green
Hamilton	kplx40	230/50Hz	400	L	Green			Green
Jung	225TDE	230/50Hz	20-525	T	Yellow			Yellow
Legrand	078405	230/50Hz	600	L				
Legrand	99314	230/50Hz	300	L	Green			Green

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 accoustic noises may occure) (Dimming range < 60%) White not tested					Lamp	Type	SUPERSTAR MR11 20			
Product Picture										
EAN	4052899970885									
Product Code	AB33561									
Dimmer					Number of Lamps on					
Brand	Model	Voltage range	Power	Type	1	2	3	4		
Legrand	281004	230/50Hz	500	L	Green			Green		
Legrand	281060	230/50Hz	500	L	Green			Green		
Legrand	617030	230/50Hz	600	L	Green			Green		
Legrand	617031	230/50Hz	1000	L	Green			Yellow		
Legrand	770061	230/50Hz	400	L	Yellow			Green		
Legrand	770062	230/50Hz	400	T	Green			Green		
LKO	420GLE/I	230/50Hz	40-420	T	Yellow			Green		
MASTER	DM-2500	230/50Hz	2500	L	Green			Green		
MASTER	DM-DGL	230/50Hz	1000	L	Red			Red		
Merten	MEG5131	230/50Hz	40-400	L	Green			Green		
Merten	MEG5135	230/50Hz	60-1000	L	Green			Red		
Merten	MEG5140	230/50Hz	9-10	L	Green			Green		
MK	K4501	230/50Hz	180	L	Green			Green		
NEXUS	881P-01	230/50Hz	400	L	Green			Green		
NIKO	310-01900/01901	230/50Hz	5-200	L/T	Red			Yellow		
NIKO	330-00700/00701	230/50Hz	5-200	L/T	Yellow			Green		
PEHA	435HAN	230/50Hz	60-600	L	Green			Green		
shuttle	SDIM-T-LED-500W	230/50Hz	2-500	T	Green			Green		
Siemens	5WG1-527-1AB31	230/50Hz	20-500	T	Green			Green		
VADSBO	LD220	230/50Hz	1-200	T	Red			Green		
VARILIGHT	HQ3W	230/50Hz	400	L	Green			Green		
VARILIGHT	JQP401W	230/50Hz	400	T	Green			Green		
Vimar	20135	230/50Hz	3-100	L/T	Red			Yellow		
Werten	MEG5170-030	230/50Hz	10-200	T	Green			Green		
ZANO	WH251	230/50Hz	250	L	Green			Green		
ZANO	WH401	230/50Hz	400	L	Green			Green		
ZANO	Z GRID 500	230/50Hz	500	T	Green			Green		
ZANO	Z GRID 700	230/50Hz	250	T	Red			Red		

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.

Bitte beachten:

- Die Kompatibilitätsliste basiert auf Tests, die der Hersteller in einer im Labor simulierten Umgebung durchgeführt hat. Die Ergebnisse können aufgrund verschiedener Faktoren in manchen Praxisanwendungen abweichen. OSRAM übernimmt keinerlei Verantwortung, Garantie oder Haftung dafür, dass diese Ergebnisse tatsächlich mit den Geräten unter anderen Bedingungen, mit Nachfolgemodellen der getesteten Geräte, mit anderen Modellen desselben Herstellers oder bei Verwendung anderer LED-Lampentypen erreicht werden.
- Das Fehlen eines Dimmers in der Abbildung bedeutet nicht, dass ein Dimmer nicht kompatibel ist.
- Lesen Sie stets die Installationsanweisungen des Dimmerherstellers.
- LED-Lampen bestehen aus mehreren elektronischen Komponenten. Unter ungünstigen Bedingungen können diese Störgeräusche erzeugen. Im Resonanzfall können selbst geringe Geräusche einen hörbaren Effekt hervorrufen. Einflussfaktoren können die Installation, die Gestaltung des Lampenträgers, die Leuchte (akustischer Resonanzeffekt), der Dimmer oder der Trafo (Oberschwingungen oder elektronische Resonanz) sein.
- Änderungen vorbehalten.
- Irrtümer und Auslassungen vorbehalten.
- Vergewissern Sie sich, dass Sie stets die aktuellste Version benutzen.

Anwendungshinweis:

- Um bestmögliche Dimmergebnisse zu erzielen, wird die Verwendung von Phasenabschnitt-Dimmern empfohlen.
- Phasenabschnitt-Dimmer erfordern bei der Installation einen Neutralleiter.

LEDVANCE GmbH

Head Office:

Parking 29-33
85748 Garching, Germany
Phone +49 89 780673-100
Fax +49 89 780673-XXX
www.ledvance.com