

STAR/SUPERSTAR® MR11

Electric Transformer Compatibility

BASIC INFORMATION:

1. HOW CAN I UNDERSTAND THE FOLLOWING SHEETS?

- Compatibility to OSRAM ETs:
- Compatibility to OTHER ETs :

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 MANY LAMPS CAN I INSTALL ON ONE ET?

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

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

4. HOW CAN I READ THE FOLLOWING CHARTS?

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

ET Compatibility traffic light system:

Green	very good compatibility (no problems with ET)
Yellow	good compatibility habits (partially flickering)
Red	partial critical compatibility habits (flickering or darker light may occur)
White	not tested

Lamp

ET

List of ET being tested in the laboratory

Brand	Model	Voltage range	Power
OSRAM	ET-MZ 60/110-130	110-130, 50-60Hz	20-60
OSRAM	ET-A 60/220-240	220-240, 50-60Hz	20-60
OSRAM	ET-C 70/220-240	220-240, 50-60Hz	20-70
OSRAM	ET-Z 60/220-240	220-240, 50-60Hz	20-60
OSRAM	ET-ZL 60/220-240	220-240, 50-60Hz	50
OSRAM	ET-ZE 60/220-240	220-240, 50-60Hz	20-60W
OSRAM	ET-P 60/220-240 (Gen 1)	220-240, 50-60Hz	20-60
OSRAM	ET-P 60/220-240 (Gen 2)	220-240, 50-60Hz	20-60
OSRAM	ET-P 70/220-240 I	220-240, 50-60Hz	20-70
OSRAM	ET-P 105/220-240 I	220-240, 50-60Hz	35-105
OSRAM	TET-E60/220-240	220-240, 50-60Hz	20-60

STAR® / SUPERSTAR® MR16 and MR 11 Electric Transformer Compatibility

Type	LED STAR MR11 20	LED STAR MR16 20	LED STAR MR16 35	LED SUPER-STAR MR16 20	LED SUPER-STAR MR16 35
Product Picture					
EA	4052899910416	4052899928978	4052899910393	4008321882264	400832188234
Product Code	AA57342	AA77752	AA65327	AA77782	AA77790
EA	4052899914350	400832188237			
Product Code					
Number of Lamps on ET	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
ET					
ET-MZ 60/110-130					
ET-A 60/220-240					
ET-C 70/220-240					
ET-Z 60/220-240					
ET-ZL 60/220-240					
ET-ZE 60/220-240					
ET-P 60/220-240 (Gen 1)					
ET-P 60/220-240 (Gen 2)					
ET-P 70/220-240 I					
ET-P 105/220-240 I					
TET-E60/220-240					

Information about the OSRAM lamp type

Number of lamps tested on an ET

Test results of compatibility according to the traffic light system

Example: ET ... works very well for one LED STAR MR16 20 lamp.

OSRAM ETs

ET Compatibility traffic light system: Green very good compatibility (no problems with ET) Yellow good compatibility habits (partially flickering) Red partial critical compatibility habits (flickering or darker light may occur) White not tested				Lamp	Type	STAR MR11 20	SUPERSTAR MR11 20					
					Product Picture							
					EAN	4052899954960	4052899970885					
					Product Code	AB43472	AB33561					
ET					Number of Lamps on ET:				Number of Lamps on ET:			
Brand	Model	Voltage Range	Power		1	2	3	4	1	2	3	4
OSRAM	ET-A 60/220-240	220-240, 50-60Hz	20-60W		Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	ET-LED30 /220-240	220-240, 50-60Hz	2-30W		Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	ET-P 60/220-240 (Gen 1)	220-240, 50-60Hz	20-60W		Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	ET-Parrot 70/220-240 I/G	220-240, 50-60Hz	20-60W		Red	Red	Red	Red	Red	Red	Red	Red
OSRAM	ET-Redback 60/230-240	220-240, 50-60Hz	20-60W		Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	ET-Z 60/220-240	220-240, 50-60Hz	20-60W		Red	Red	Red	Red	Red	Red	Red	Red
OSRAM	ET-ZL50/220-240	220-240, 50-60Hz	50W		Yellow	Green	Green	Green	Yellow	Green	Green	Green
OSRAM	HTM 105/230-240	220-240, 50-60Hz	35-105W		Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	HTM 70/230-240	220-240, 50-60Hz	20-70W		Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	HTN 75/230-240 I	220-240, 50-60Hz	20-75W		Green	Yellow	Red	Red	Green	Yellow	Red	Red
OSRAM	OT 30 220-240 12P	220-240, 50-60Hz	30W		Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	OT 60 220-240 12P	220-240, 50-60Hz	60W		Green	Green	Green	Green	Green	Green	Green	Green

OTHERS ETs

ET				Lamp	Type	STAR MR11 20	SUPERSTAR MR11 20					
ET Compatibility traffic light system:					Product Picture							
Green very good compatibility (no problems with ET)						4052899954960	4052899970885					
Yellow good compatibility habits (partially flickering)						AB43472	AB33561					
Red partial critical compatibility habits (flickering or darker light may occur)				EAN Product Code								
White not tested												
					Number of Lamps on ET:	Number of Lamps on ET:						
Brand	Model	Voltage Range	Power		1	2	3	4	1	2	3	4
Aurora	AU-E60	220-240, 50-60Hz	10-60W									
EGLO	92348	220-240, 50-60Hz	0-70W									
PHILIPS	Primaline 150	220-240, 50-60Hz	50-150W									
PHILIPS	Primaline 105	220-240, 50-60Hz	35-105W									
PHILIPS	Primaline 70	220-240, 50-60Hz	20-70W									
PHILIPS	ET-S 60	220-240, 50-60Hz	20-60W									
PHILIPS	ET-S 105	220-240, 50-60Hz	35-105W									
PHILIPS	CERTALINE 150W	220-240, 50-60Hz	50-150W									
PHILIPS	CERTALINE 105W	220-240, 50-60Hz	35-105W									
PHILIPS	ET-E 105	220-240, 50-60Hz	50-105W									
PHILIPS	ET-E 60	220-240, 50-60Hz	20-60W									
PHILIPS	ET-E 10	220-240, 50-60Hz	2-10W									
Relco	SUGAR 60 RN1578	220-240, 50-60Hz	10-60W									
Tridonic	ATCO Viper 60VA	220-240, 50-60Hz	20-60W									
Varilight	YT50LZ	220-240, 50-60Hz	0-50W									
Varilight	YT70	220-240, 50-60Hz	0-70W									
VOSSLOH SCHWABE	EST 105/12.381	220-240, 50-60Hz	20-105W									

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.

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