

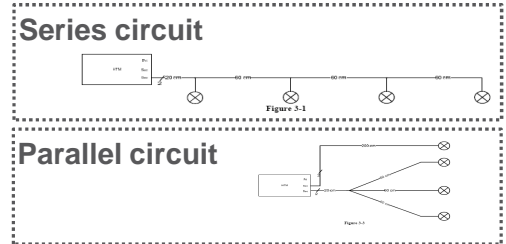
SUPERSTAR® MR16 and MR 11 Electric Transformer Compatibility



BASIC INFORMATION:

1. HOW CAN I UNDERSTAND THE FOLLOWING SHEETS?

- Compatibility to OSRAM ETs:
 - Series Circuit..... Page 2
 - Parallel Circuit..... Page 3
- Compatibility to OTHER ETs :
 - Series Circuit..... Page 4
 - Parallel Circuit..... Page 5

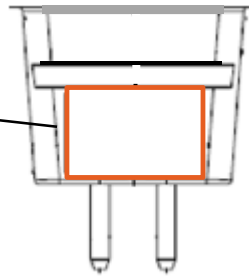


2. WHAT IS THE PRODUCT CODE AND WHERE DO I FIND IT?

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
MR16 20 36° · **AA37362**
dim · 210lm · 2700K



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:	
■	very good compatibility (no problems with ET)
■	good compatibility habits (partially flickering)
■	partial critical compatibility habits (flickering or darker light, may occur)
■	not tested

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

Type	LED STAR				LED SUPERSTAR			
	MR11 20	MR16 20	MR16 35	STAR MR16 20	STAR MR16 20	STAR MR16 20	STAR MR16 20	STAR MR16 3
Product Picture								
EAN	4052899910416	4052899928978	4052899910393	4008321882264	4008321882264	4008321882264	4008321882264	400832188234
Product Code	AA57342	AA77792	AA65327	AA77792	AA77792	AA77792	AA77792	AA77792
EAN				4052899014330	4052899014330	4052899014330	4052899014330	400832188237
Product Code				AA55551	AA55551	AA55551	AA55551	AA77792
	Number of Lamps on ET:				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	1 2 3 4	1 2 3 4	1 2 3 4
	ET	ET	ET	ET	ET	ET	ET	ET

Information about the OSRAM lamp type

Number of lamps tested on an ET

List of ET being tested in the laboratory

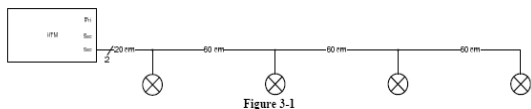
Test results of compatibility according to the traffic light system

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

SUPERSTAR® MR16 and MR 11 ET Compatibility without Dimmer

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OSRAM ETs on series circuit



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

SUPERSTAR® MR16 and MR 11 Electric Transformer Compatibility

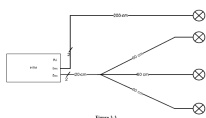
ET

Brand	Model	Voltage range	Power	Type	LED SUPERSTAR MR11 20				LED SUPER-STAR MR16 20				LED SUPER-STAR MR16 35				LED SUPER-STAR MR16 50			
					Number of Lamps on ET:				Number of Lamps on ET:				Number of Lamps on ET:				Number of Lamps on ET:			
					1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
OSRAM	ET-MZ 60/110-130	110-130, 50-60Hz	20-60	ET	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	ET-A 60/220-240	220-240, 50-60Hz	20-60	ET	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	ET-C 70/220-240	220-240, 50-60Hz	20-70	ET	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	ET-Z 60/220-240	220-240, 50-60Hz	20-60	ET	Yellow	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	ET-ZL 50/220-240	220-240, 50-60Hz	50	ET	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	ET-ZE 60/220-240	220-240, 50-60Hz	20-60W	ET	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	ET-P 60/220-240 (Gen 1)	220-240, 50-60Hz	20-60	ET	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	ET-P 60/220-240 (Gen 2)	220-240, 50-60Hz	20-60	ET	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	ET-Parrot 70/220-240 I	220-240, 50-60Hz	20-70	ET	Yellow	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	ET-Parrot 105/220-240 I	220-240, 50-60Hz	35-105	ET	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	TET-E60I/220-240	220-240, 50-60Hz	20-60	ET	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	ET-Redback 60/230-240	230-240, 50Hz	20-60	ET	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	ET-LED 30 220/240	220-240, 50-60Hz	2-30	ET	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	N/A
OSRAM	HTB 70/220-240	220-240, 50-60Hz	20-70	HT	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	HTB 105/220-240	220-240, 50-60Hz	35-105	HT	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	HTN 75/230-240 I	230-240, 50-60Hz	20-75	HT	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	HTM 70/230-240	230-240, 50-60Hz	20-70	HT	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	HTM 105/230-240	230-240, 50-60Hz	35-105	HT	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	HTM 150/230-240	230-240, 50-60Hz	50-150	HT	Green	Green	Green	Green	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	HTL105/230-240	230-240, 50-60Hz	35-105	HT	Green	Green	Green	Green	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	HTL225/230-240	230-240, 50-60Hz	50-225	HT	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	OT 12/220-240/10	220-240, 50-60Hz	0.5-12	OT	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	OT 15/220-240/10	220-240, 50-60Hz	0.5-15	OT	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	OT 50/220-240/10	220-240, 50-60Hz	0-50	OT	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	OTe 35/220-240/12	220-240, 50-60Hz	1.0-35	OT	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	OT 20/220-240/24	220-240, 50-60Hz	0.5-20	OT	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	OT 75/220-240/24	220-240, 50-60Hz	0-75	OT	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	OTe 18/220-240/24	220-240, 50-60Hz	1.0-18	OT	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	Hti DALI 105/230-240 DIM	230-240, 50-60Hz	35-105	HTi	Green	Green	Green	Green	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
OSRAM	Hti DALI 150/220-240 DIM	220-240, 50-60Hz	35-150	HTi	Green	Green	Green	Green	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green

SUPERSTAR® MR16 and MR 11 ET Compatibility without Dimmer

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Other ETs on parallel circuit







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

SUPERSTAR® MR16 and MR 11 Electric Transformer Compatibility

Lamp

Type	LED SUPERSTAR MR11 20	LED SUPERSTAR MR16 20	LED SUPER-STAR MR16 35	LED SUPER-STAR MR16 50											
															
	EAN	EAN	EAN	EAN											
Product Code	4052899939943	4052899944275	4052899944299	4052899944312											
EAN	AB33561	AB30692	AB30693	AB30695											
Product Code		4052899944282	4052899944305	4052899944329											
Product Code		AB35099	AB35113	AB35117											
Number of Lamps on ET:	Number of Lamps on ET:				Number of Lamps on ET:				Number of Lamps on ET:						
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3

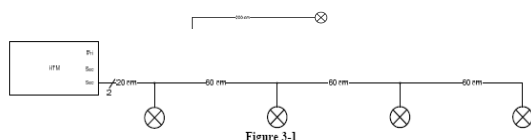
ET

Brand	Model	Voltage range	Power	Type
SLV	461060	230, 50-60Hz	10-60	ET
SLV	461310	230,50Hz	35-105	ET
BLOCK	HES 70K	230-240,50-60Hz	20-70	ET
BLOCK	HES 105K	230-240,50-60Hz	35-105	ET
EVN	TAB 70 (3110)	230,50-60Hz	20-70	ET
EVN	TAB 70 (3310)	230,50-60Hz	20-70	ET
EVN	TAB 50(0410)	230,50-60Hz	20-50	ET
EVN	CLOU 60(T41/09)	230-240,50-60Hz	10-60	ET
EVN	MINIJOKER 70(T27/10)	\	70	ET
Berker	Igel 20-105w 2921	230-240,50-60Hz	20-105	ET
Berker	SNT 70/QU 2918	230,50-60Hz	20-70	ET
Berker	SNTF 105 297401	230,50-60Hz	20-105	ET
Berker	SNTF II 35-105W 2927	230,50-60Hz	35-105	HT
Berker	SNT 40 2915	230,50-60Hz	10-40	ET
TCI	SHARK60	220-240,50-60Hz	10-60	ET
TCI	PUMA 60	230-240,50-60Hz	20-60	ET
TCI	EF 70	230,50-60Hz	20-70	ET
TCI	PUMA 105	230-240,50-60Hz	20-105	ET
TCI	ROUND 70	230,50-60Hz	20-70	ET
TCI	ROUND 50	230,50-60Hz	10-50	ET
BRUMBERG	54211	220-240,50-60Hz	35-105	ET
BRUMBERG	54271	230-240,50-60Hz	35-105	ET
Paulmann	Disc electronic S 70	230,50-60Hz	20-70	ET
Paulmann	Euro S 70	230,50-60Hz	20-70	ET
Paulmann	Profi 50	220-240,50Hz	10-50	ET
Paulmann	Profi 80	220-240,50Hz	20-80	ET
Paulmann	Mipro 70	230,50-60Hz	20-70	ET
Paulmann	Mipro 105	230,50-60Hz	35-105	ET
JUNG	SNT 70 Q	230,50-60Hz	20-70	ET
JUNG	SNT 40	230,50-60Hz	10-40	ET
JUNG	SNT 70 F	230,50-60Hz	20-70	ET
JUNG	SNT 105 F	230,50-60Hz	20-105	ET
nobile	EN-80F	230,50-60Hz	20-80	ET
nobile	EN-60D2	230,50-60Hz	20-60	ET
nobile	EN-60D	230,50-60Hz	20-60	ET
nobile	EN-35R	230,50-60Hz	10-35	ET
KTB	MBL 120	230,50-60Hz	20-120	ET
FN LIGHT	TL105S 20-105W 461107	230-240,50-60Hz	20-105	ET
goodbay	SET110LV(35-110W)	220-240,50Hz	35-110	ET
PHILIPS	Primaline 70 230-240	230-240,50-60Hz	20-70	ET
abi	SET210(50-210VA) AL50476	220-240V, 50Hz	50-210	ET
abi	SET60T-EL AL50460	220-240V, 50Hz	10-60	ET
abi-AURORA	AU-E60	240V, 50/60Hz	10-60	ET
abi	GET-60T AL50462	220-240V, 50Hz	10-60	ET
Radium	Ralotronic SMART D 70	230-240V,50-60Hz	20-70	
Radium	Ralotronic SMART D 105	230-240V,50-60Hz	35-105	

SUPERSTAR® MR16 and MR 11 ET Compatibility without Dimmer

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Other ETs on series circuit







ET Compatibility traffic light system:

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- Red** partial critical compatibility habits (flickering or darker light may occur)
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SUPERSTAR® MR16 and MR 11 Electric Transformer Compatibility

Lamp

Type	LED SUPERSTAR MR11 20	LED SUPERSTAR MR16 20	LED SUPER-STAR MR16 35	LED SUPER-STAR MR16 50											
															
EAN	4052899939943	4052899944275	4052899944299	4052899944312											
Product Code	AB33561	AB30692	AB30693	AB30695											
EAN		4052899944282	4052899944305	4052899944329											
Product Code		AB35099	AB35113	AB35117											
Number of Lamps on ET:	Number of Lamps on ET:				Number of Lamps on ET:				Number of Lamps on ET:						
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
SLV 461060															
SLV 461310															
BLOCK HES 70K															
BLOCK HES 105K															
EVN TAB 70 (3110)															
EVN TAB 70 (3310)															
EVN TAB 50(0410)															
EVN CLOU 60(T41/09)															
EVN MINIJOKER 70(T27/10)															
Berker Igel 20-105w 2921															
Berker SNT 70/QU 2918															
Berker SNTF 105 297401															
Berker SNTF II 35-105W 2927															
Berker SNT 40 2915															
TCI SHARK60															
TCI PUMA 60															
TCI EF 70															
TCI PUMA 105															
TCI ROUND 70															
TCI ROUND 50															
BRUMBERG 54211															
BRUMBERG 54271															
Paulmann Disc electronic S 70															
Paulmann Euro S 70															
Paulmann Profi 50															
Paulmann Profi 80															
Paulmann Mipro 70															
Paulmann Mipro 105															
JUNG SNT 70 Q															
JUNG SNT 40															
JUNG SNT 70 F															
JUNG SNT 105 F															
nobile EN-80F															
nobile EN-60D2															
nobile EN-60D															
nobile EN-35R															N/A
KTB MBL 120															
FN LIGHT TL105S 20-105W 461107															
goodbay SET110LV(35-110W)															
PHILIPS Primaline 70 230-240															
abi SET210(50-210VA) AL50476															
abi SET60T-EL AL50460															
abi-AURORA AU-E60															
abi GET-60T AL50462															
Radium Ralotronic SMART D 70															
Radium Ralotronic SMART D 105															

ET

(*) Lamp may flicker in lower dimming range
Due to its limited functionality with leading edge dimmers, this kind of dimmer is not recommended

STAR® / SUPERSTAR® MR16 and MR 11 Electric Transformer 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 an electric transformer from this chart does not necessarily imply incompatibility.
- Please reference the electric transformer 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