

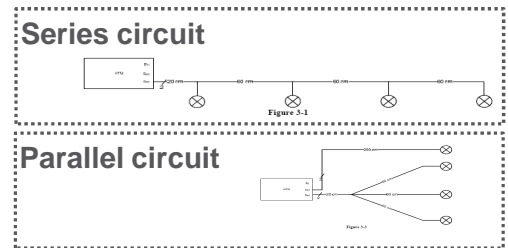
STAR® MR16 and MR 11 Electric Transformer Compatibility



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

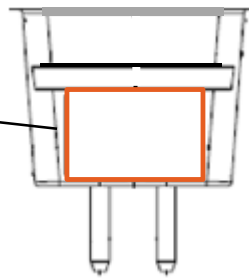


2. WHAT IS THE PRODUCT CODE AND WHERE DO I FIND IT?

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 MR11 20				LED STAR MR16 20				LED STAR MR16 35				LED SUPER-STAR MR16 20				LED SUPER-STAR MR16 3			
	Number of lamps on ET:				Number of lamps on ET:				Number of lamps on ET:				Number of lamps on ET:				Number of lamps on ET:			
Product Picture	1 2 3 4				1 2 3 4				1 2 3 4				1 2 3 4				1 2 3 4			
EAN	4052899910416				4052899928978				4052899910393				4008321882264				400832188234			
Product Code	AA57342				AA77752				AA65327				AA77782				AA77790			
EAN	4052899910416				4052899910393				4008321882264				400832188234				400832188237			
Product Code	AA57342				AA77752				AA65327				AA77782				AA77792			

Information about the OSRAM lamp type

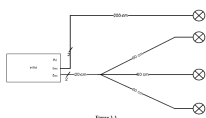
Number of lamps tested on an ET

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.

OSRAM 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

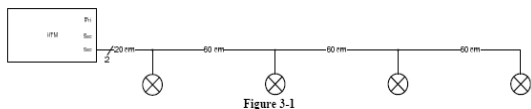
Lamp

STAR® MR16 and MR 11 Electric Transformer Compatibility

ET

Brand	Model	Voltage range	Power	Type	LED STAR MR11 20				LED STAR MR16 20				LED STAR MR16 35				LED 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																
OSRAM	ET-A 60/220-240	220-240, 50-60Hz	20-60	ET	Green	Green	Green	Green	Yellow	Green	Yellow	Green	Green	Green	Green	Green	Green	Green	Green	
OSRAM	ET-C 70/220-240	220-240, 50-60Hz	20-70	ET																
OSRAM	ET-Z 60/220-240	220-240, 50-60Hz	20-60	ET	Green	Green	Green	Green												
OSRAM	ET-ZL 50/220-240	220-240, 50-60Hz	50	ET	Yellow	Green	Yellow	Green												
OSRAM	ET-ZE 60/220-240	220-240, 50-60Hz	20-60W	ET	Red	Red	Red	Red	Yellow	Green	Yellow	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												
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	
OSRAM	ET-Parrot 70/220-240 I	220-240, 50-60Hz	20-70	ET	Green	Green	Green	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	N/A	N/A	N/A	N/A	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	
OSRAM	ET-Parrot 150	230, 50-60Hz	50-150	ET	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	
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	
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	
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	
OSRAM	HTB 70/230-240	230-240, 50Hz	20-70	HT	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	
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	
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	
OSRAM	HTM 150/230-240	230-240, 50-60Hz	50-150	HT	N/A	N/A	N/A	N/A	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	
OSRAM	HTL105/230-240	230-240, 50-60Hz	35-105	HT	N/A	N/A	N/A	N/A	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	
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	
OSRAM	OT 12/220-240/10	220-240, 50-60Hz	0.5-12	OT																
OSRAM	OT 15/220-240/10	220-240, 50-60Hz	0.5-15	OT																
OSRAM	OT 50/220-240/10	220-240, 50-60Hz	0-50	OT																
OSRAM	OTe 35/220-240/12	220-240, 50-60Hz	1.0-35	OT																
OSRAM	OT 20/220-240/24	220-240, 50-60Hz	0.5-20	OT																
OSRAM	OT 75/220-240/24	220-240, 50-60Hz	0-75	OT																
OSRAM	OTe 18/220-240/24	220-240, 50-60Hz	1.0-18	OT																
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	
OSRAM	Hti DALI 150/220-240 DIM	220-240, 50-60Hz	35-150	HTi	Green	Green	Green	Green	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	
OSRAM	IZA 50/240	220-240, 50-60Hz	20-50	IZ																

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

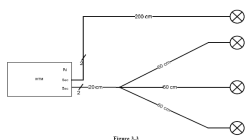
Lamp

ET

STAR® MR16 and MR 11 Electric Transformer Compatibility

Brand	Model	Voltage range	Power	Type	LED STAR MR11 20				LED STAR MR16 20				LED STAR MR16 35				LED 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																
OSRAM	ET-A 60/220-240	220-240, 50-60Hz	20-60	ET																
OSRAM	ET-C 70/220-240	220-240, 50-60Hz	20-70	ET																
OSRAM	ET-Z 60/220-240	220-240, 50-60Hz	20-60	ET																
OSRAM	ET-ZL 50/220-240	220-240, 50-60Hz	50	ET																
OSRAM	ET-ZE 60/220-240	220-240, 50-60Hz	20-60W	ET																
OSRAM	ET-P 60/220-240 (Gen 1)	220-240, 50-60Hz	20-60	ET																
OSRAM	ET-P 60/220-240 (Gen 2)	220-240, 50-60Hz	20-60	ET																
OSRAM	ET-Parrot 70/220-240 I	220-240, 50-60Hz	20-70	ET																
OSRAM	ET-Parrot 105/220-240 I	220-240, 50-60Hz	35-105	ET	N/A	N/A	N/A	N/A												
OSRAM	ET-Parrot 150	230, 50-60Hz	50-150	ET																
OSRAM	TET-E60I/220-240	220-240, 50-60Hz	20-60	ET																
OSRAM	ET-Redback 60/230-240	230-240, 50Hz	20-60	ET																
OSRAM	ET-LED 30/220/240	220-240, 50-60Hz	2-30	ET																
OSRAM	HTB 105/220-240	220-240, 50-60Hz	35-105	HT																
OSRAM	HTB 70/230-240	230-240, 50Hz	20-70	HT																
OSRAM	HTN 75/230-240 I	230-240, 50-60Hz	20-75	HT																
OSRAM	HTM 70/230-240	230-240, 50-60Hz	20-70	HT																
OSRAM	HTM 105/230-240	230-240, 50-60Hz	35-105	HT																
OSRAM	HTM 150/230-240	230-240, 50-60Hz	50-150	HT	N/A	N/A	N/A	N/A												
OSRAM	HTL105/230-240	230-240, 50-60Hz	35-105	HT	N/A	N/A	N/A	N/A												
OSRAM	HTL225/230-240	230-240, 50-60Hz	50-225	HT																
OSRAM	OT 12/220-240/10	220-240, 50-60Hz	0.5-12	OT																
OSRAM	OT 15/220-240/10	220-240, 50-60Hz	0.5-15	OT																
OSRAM	OT 50/220-240/10	220-240, 50-60Hz	0-50	OT																
OSRAM	OTe 35/220-240/12	220-240, 50-60Hz	1.0-35	OT																
OSRAM	OT 20/220-240/24	220-240, 50-60Hz	0.5-20	OT																
OSRAM	OT 75/220-240/24	220-240, 50-60Hz	0-75	OT																
OSRAM	OTe 18/220-240/24	220-240, 50-60Hz	1.0-18	OT																
OSRAM	Hti DALI 105/230-240 DIM	230-240, 50-60Hz	35-105	HTi																
OSRAM	Hti DALI 150/220-240 DIM	220-240, 50-60Hz	35-150	HTi																
OSRAM	IZA 50/240	220-240, 50-60Hz	20-50	IZ																

Other ETs on parallel circuit







STAR® MR16 and MR 11 Electric Transformer Compatibility

ET Compatibility traffic light system:

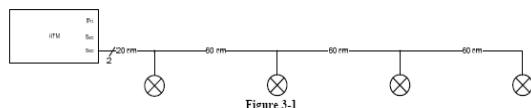
- Green** very good compatibility (no problems with ET)
- Yellow** good compatibility habits (partially flickering)
- Red** partial critical compatibility habits (flickering or darker light may occur)
- White** not tested

ET

Lamp

Type	LED STAR			
	MR11 20	MR16 20	MR16 35	MR16 50
				
EAN	4052899910416	4052899944367	4052899944381	4052899944404
Product Code	AA57342	AB30696	AB30697	AB30699
EAN		4052899944374	4052899944398	4052899944411
Product Code		AB35127	AB35129	AB35125
Number of Lamps on ET:	1 2 3 4			
	1	2	3	4
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				
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				

Other ETs on series circuit



STAR® MR16 and MR 11 Electric Transformer Compatibility

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

ET

Lamp

Type	LED STAR MR11 20	LED STAR MR16 20	LED STAR MR16 35	LED STAR MR16 50																
	Product Picture																			
EAN	4052899910416	4052899944367	4052899944381	4052899944404																
Product Code	AA57342	AB30696	AB30697	AB30699																
EAN		4052899944374	4052899944398	4052899944411																
Product Code		AB35127	AB35129	AB35125																
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				
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																	

STAR® 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