



# LED STAR/SUPERSTAR Compatibility Performance with Transformers without Dimmer

Minimum number of lamps to be connected  
for good functionality

For max. number of lamps on a transformer please use the rule of thumb: \*  

$$\frac{\text{Max load of transformer}}{\text{halogen equivalent wattage}} = \text{max. number of lamps}$$

LED STAR MR 11 20	LED STAR MR 16 20	LED STAR MR 16 35	LED SUPERSTAR MR 16 20 adv	LED SUPERSTAR MR 16 35 36° adv	LED SUPERSTAR MR 16 35 24° adv
					
4052899910416	4052899910386	4052899910393	4008321882264 4008321882295	4008321882349 4008321882370	4008321682703

Brand	Model	LED STAR MR 11 20	LED STAR MR 16 20	LED STAR MR 16 35	LED SUPERSTAR MR 16 20 adv	LED SUPERSTAR MR 16 35 36° adv	LED SUPERSTAR MR 16 35 24° adv
OSRAM	HTM 70/230-240	1 - 4	1 - 3	1 - 4	1 - 4	1 - 4	1 - 3
OSRAM	HTM 105/230-240	1 - 4	1 - 3	1 - 4	1 - 4	1 - 4	1 - 4
OSRAM	HTM 150/230-240			1 - 4	2 - 4	2 - 4	3 - 4
OSRAM	ET-Parrot 70/220-240 I	1 - 3	1	1 - 4	1 - 4	1 - 4	1 - 3
OSRAM	ET-Parrot 105/220-240			1 - 4	1 - 4	1 - 4	2 - 4
OSRAM	ET-Parrot 150/220-240						
OSRAM	Hti DALI 105/230-240 DIM						
OSRAM	Hti DALI 150/230-240 DIM						
OSRAM	Hti DALI 315/230-240 (HTM70)						
OSRAM	Hti DALI 315/230-240 (ET-Parrot70)						
OSRAM	Hti DALI 315/230-240 (ET-Z60)						
OSRAM	Hti DALI 315/230-240 (ET-A60)						
OSRAM	HTL105/230-240			2 - 4	2 - 4	2 - 4	3 - 4
OSRAM	HTL225/230-240				2 - 4	4	
OSRAM	HTN 75/230-240 I	2 - 4		1 - 4	1 - 4	1 - 4	1 - 3
OSRAM	OT 12/220-240/10				1	1	1
OSRAM	OT 15/220-240/10				1 - 2	1 - 2	1
OSRAM	OT 20/220-240/24						1



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OSRAM	Ote 18/220-240/24						1
OSRAM	OTe 35/220-240/12				1 - 4	1 - 4	1
OSRAM	OT 50/220-240/10						
OSRAM	OT 75/220-240/24						1 - 3
OSRAM	OT 15/12 P	1 - 3	1 - 3	1 - 2	1 - 3	1 - 2	1 - 2
OSRAM	OT 30/12 P	1 - 7	1 - 7	1 - 4	1 - 7	1 - 4	1 - 5
OSRAM	OTe 60/12 E	1 - 14	1 - 15	1 - 9	1 - 14	1 - 9	1 - 10
OSRAM	HTB 70/220-240	1/3 - 4		1 - 4	1 - 4	1 - 4	1 - 3
OSRAM	HTB 105/220-240	1 - 4		1 - 4	1 - 4	1 - 4	1 - 4
OSRAM	ET-ZE 60/220-240			1 - 4	2 - 4	2 - 4	1 - 3
OSRAM	ET-Z 60/220-240 (EN ver)	1 - 4	1 - 3	1 - 4	1 - 4	1 - 4	1 - 3
OSRAM	ET-ZL 50/220-240	2		1 - 4	2 - 4	2 - 4	1 - 2
OSRAM	ET-MZ 60/110-130				1 - 4	1 - 4	3
OSRAM	ET-C 70/220-240				2 - 4	2 - 4	1 - 3
OSRAM	ET-A 60/220-240	1	1 - 3	1 - 4	1 - 4	1 - 4	1 - 3
OSRAM	ET-P 60/220-240 (Gen 1)	1 - 4	1 - 3	1 - 4	1 - 4	1 - 4	2 - 3
OSRAM	ET-P 60/220-240 (Gen 2)				1 - 4	1 - 4	1 - 3
OSRAM	TET-E60I/220-240				2 - 4	2 - 4	3
OSRAM	ET-Redback 60/230-240				2 - 4	2 - 4	1 - 3
ABB	Speedy 50/230-240			1 - 4			

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ABB	Speedy 70/230-240			1 - 4			
abi	AL50476						
abi	SET60T-EL AL50460					1	1 - 3
abi	GET-60T AL50462						1 - 3
abi-AURORA	AU-E60				1		
BATEC	BT-HA50K						
BEC	MET50						
Berker	Igel Tronic Trafo 2921				1	1	
Berker	Tronic Trafo SNT 40-2915						
Berker	SNTF105-297401/230V						2 - 4
Berker	SNTF II 35-105W 2927						3 - 4
Berker	SNT 40 2915						1 - 2
Berker	SNT 70/QO 2918						1 - 3
BLOCK	HES 70K				1	1	1 - 3
BLOCK	HES 105K						1 - 4
Brumberg	54211/220-240V			2 - 4			3 - 4
Brumberg	54271/230-240						1 - 4



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Brumberg	Trafo 105VA						
Busch-Jäger	6575-70/230-240						
EVN	Clou 60/230-240V						1 - 3
EVN	MINIJOKER 70/230						2 - 3
EVN	PD.2/60/230-240						
EVN	TAB 50(0410)				1	1	1 - 2
EVN	TAB 70/230V (3310)						1 - 3
FN LIGHT	TL105S-461107/230-240V				1		1 - 3
Goodbay	SET110LV (35-110W)						
JOM	ET-60A						
JUHAO	JH-ET60A						
Jung	Tronic Trafo SNT 105 F						2 - 4
Jung	Tronic Trafo SNT 70 Q						1 - 3
Jung	SNT 70 F						2 - 3
Jung	SNT40					1	1 - 2
Kopp	YT7C/230						
Kopp	YT70						



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KTB	MBL 120			1	1		2 - 4
LONON	LNDET-50W						
LUMIA	DKB-MR50H						
Marble	MET-2050A						
NA	100VA						1 - 4
NA	200VA						
Nobile	EN-60D				1		2 - 3
Nobile	EN-80F						2 - 4
Nobile	EN-35R			1			1
Nobile	EN-60D2						2 - 3
nVc	E60E						
nVc	ET60DS						
nVc	ET60E						
Paulmann	Disc electronic S 70						1 - 3
Paulmann	Euro S 70						
Paulmann	Mipro 70						
Paulmann	Mipro 105						



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Paulmann	Profi 50						1 - 2
Paulmann	Profi 80						
PHILIPS	ET-E60						
PHILIPS	Primaline70/230-240V	1 - 4		1 - 4			3
PHILIPS	Primaline105W/230-240	1 - 3		1 - 4			
SELF	SET60M/220-240	1 - 4					
SHLY	12V 50W						
SLV	461060				1	1	1 - 3
SLV	461310						1 / 4
SP ELECTRIC	TFE50/12						
Spider	60S/240						
TCI	PUMA 60				1		1 - 3
TCI	EF 70					1	1 - 3
TCI	PUMA 105				1	1	1 - 4
TCL	ET60H						
VS	Topline EST70/230-240						
Vossloh&Schwa be	Liteline EST70	1 - 4		1 - 4			



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## Compatibility Performance with Transformers without Dimmer

- The test results reflect the measurement of the individual devices that were used in tests.
- OSRAM does not take over any responsibility, warranty or liability that this results can also be achieved by using the devices under other conditions or when using successor models of the tested devices or different models of the same manufacturer.
- The test results were achieved by using the above mentioned LED-lamp types. OSRAM does not take over any responsibility, warranty or liability that this results can also be achieved by using the devices under other conditions or when using other LED-lamp types.
- The absence of a transformer from this chart does not necessarily imply incompatibility.
- 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 transformer (harmonics or electronic resonance).
- Subject to change without notice.
- Errors and omission excepted.
- Always make sure to use the most recent release
- The recommended 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.