

Operation of low-voltage LED retrofit lamps RaLED Reflector MR16 GU5.3 with different Transformers



Legend: green works very well (without any problem)
yellow works quite well (flickering possible)
red does not really work (flickering and/or less light possible and likely)
white / other not tested



ET: electronic transformer
HT: Halotronic
OT: Optotronic

MR16 Star 35	MR16 Essence 35	MR16 Star 43	MR16 Essence 50
43519239	43019051	43519241	43618600
43519240	43519220	43519242	43618601
43518455	43618599	43518456	43618602

Manufacturer	Transformer-Type, Model	Mains voltage	Load Range [W]	Type	MR16 Star 35 no. of lamps	MR16 Essence 35 no. of lamps	MR16 Star 43 no. of lamps	MR16 Essence 50 no. of lamps
OSRAM	ET-A 60/220-240	220-240, 50-60Hz	20-60W	ET APAC	1-4	1-5	1-4	1-4
OSRAM	ET-L 30/220-240	220-240, 50-60Hz	2-30W	ET APAC	1-2	1-4	1-2	1-3
OSRAM	ET-P 60/220-240 (Gen 2)	220-240, 50-60Hz	20-60W	ET APAC	1-4	1-6	1-4	1-4
OSRAM	ET-Parrot 105/220-240 I	220-240, 50-60Hz	35-105W	ET APAC	1-7	1-6	1-7	1-5
OSRAM	ET-Parrot 150/220-240 I	220-240, 50-60Hz	50-150W	ET	1-7	1-6	1-7	1-5
OSRAM	ET-Parrot 70/220-240 I	220-240, 50-60Hz	20-70W	ET APAC	1-5	1-5	1-5	1-4
OSRAM	ET-Redback 60/230-240	230-240, 50Hz	20-60W	ET APAC	1-4	1-5	1-4	1-4
OSRAM	ET-REDBBACK 40VA/230-20	230-240, 50-60Hz	10-40W	ET APAC	1-3	1-5	1-3	1-4
OSRAM	ET-ZE 60/220-240	220-240, 50-60Hz	20-60W	ET	1-4	1-5	1-4	2-4
OSRAM	HALOTRNIC HTN75/230-240 I	230-240, 50-60Hz	20-75W	ET	1-5	1-5	1-5	1-2 & 4
OSRAM	HTB 105/220-240	220-240, 50-60Hz	35-105W	ET	1-7	1-6	1-7	1-5
OSRAM	HTB 70/220-240	220-240, 50-60Hz	20-70W	ET	1-5	1-4	1-5	1-4
OSRAM	HTL105/230-240	230-240, 50-60Hz	35-105W	ET				
OSRAM	HTL225	220-240,50-60Hz	50-225W	ET	2-7	3-9	2-3	1-5
OSRAM	HTM 105/230-240	230-240, 50-60Hz	35-105W	ET	1-7	1-6	1-7	1-5
OSRAM	HTM 150/230-240	230-240, 50-60Hz	50-150W	ET	2-7	2-9	1-7	1-5
OSRAM	HTM 70/230-240	230-240, 50-60Hz	20-70W	ET	1-5	1-5	1-5	1-4
OSRAM	IZ-A50/240	240,50-60Hz	50W	ET India	1-3	1-6	1-3	1-4
OSRAM	IZ-HALD50/220-240	220-240, 50-60Hz	20-50W	ET APAC	1-3	1-7	1-3	1-4
OSRAM	OT30	220-240,50-60Hz	30W	OT	1-2	1-4	1-2	1-2
OSRAM	OT15	220-240,50-60Hz	15W	OT	1	1-2	1	1
OSRAM	OT60	220-240,50-60Hz	60W	OT	1-4	1-7	1-4	1-4
abi	SET210(50-210VA) AL50476	220-240V, 50Hz	50-210VA	ET	1-7	1-9	1-7	1-5
Berker	Igel 20-105w 2921	230-240,50-60Hz	20-105W	ET	1-7	2-6	1-7	1-5
Berker	SNT 70/QU 2918	230,50-60Hz	20-70W	ET	1-2	2-8	1-3	1-4
Berker	SNTF II 35-105W 2927	230,50-60Hz	35-105W	ET	2-7	3-9	3-7	2-5
BLOCK	HES 70K	230-240,50-60Hz	20-70W	ET	1-5	1-4	1-5	1-4
BLOCK	HES 105K	230-240,50-60Hz	35-105W	ET	1-7	1-8	1-7	1-5

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no. of lamps	no. of lamps	no. of lamps	no. of lamps
1-5	1-4	1-5	1-3
1-4	1	1-4	
	1-6		1-5
1-4	1-7	1-7	1-5
1-5	1-9	1-5	1-4
1-7	2-6	1-7	1-5
4-6	1-8	1-5	1-5
1-4	1-6	1-4	1-4
1-5	1-7		1-4
1-6	3-7	1-5	2-5
	3-8		1-4
1-5	3-8	1-5	4
1-2	1-4	1-3	1-4

Manufacturer	Transformer-Type, Model	Mains voltage	Load Range [W]	Type
EVN	TAB 70 (3310)	230,50-60Hz	20-70W	ET
EVN	MINIJOKER 70(T27/10)	230-240,50-60Hz	10-60W	ET
EVN	CLOU 60(T41/09)	230-240,50-60Hz	10-70W	ET
FN LIGHT	TL105S 20-105W 461107	230-240,50-60Hz	20-105W	ET
goodbay	SET110LV(35-110W)	220-240,50Hz	35-110W	ET
JUNG	SNT 70 F	230,50-60Hz	20-70W	ET
JUNG	SNT 105 F	230,50-60Hz	20-105W	ET
nobile	EN-80F	230,50-60Hz	20-80W	ET
nobile	EN-60D2	230,50-60Hz	20-60W	ET
Paulmann	Disc electronic S 70	230,50-60Hz	20-70W	ET
Paulmann	Profi 80	220-240,50Hz	20-80W	ET
Paulmann	Mipro 70	230,50-60Hz	20-70W	ET
PHILIPS	Primaline 70 230-240	230-240,50-60Hz	20-70W	ET
SLV	461060	230,50-60Hz	10-60W	ET

Typical values. Test performed with regarded lamps named. The test results reflect the measurement of the individual devices that were used in tests.

Radium 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.

Due to the big number of electronic components and many other influence factors noise can emerge in unfavourable condidtons, which may be well audible in the case of resonance.

Radium does not take over any responsibility, warranty or liability that these results can also be achieved by using the devices under other conditions or when using other LED-lamp types. Installation and operational notes are to be observed.

Changes, errors and omissions excepted.