

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

Radium

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 tranformer
HT: Halotronic
OT: Optotronic

Manufacturer	Tranformer-Type, Model	Mains voltage	Load Range [W]	Type
OSRAM	ET-A 60/220-240	220-240, 50-60Hz	20-60W	ET APAC
OSRAM	ET-L 30/220-240	220-240, 50-60Hz	2-30W	ET APAC
OSRAM	ET-P 60/220-240 (Gen 2)	220-240, 50-60Hz	20-60W	ET APAC
OSRAM	ET-Parrot 105/220-240 I	220-240, 50-60Hz	35-105W	ET APAC
OSRAM	ET-Parrot 150/220-240 I	220-240, 50-60Hz	50-150W	ET
OSRAM	ET-Parrot 70/220-240 I	220-240, 50-60Hz	20-70W	ET APAC
OSRAM	ET-Redback 60/230-240	230-240, 50Hz	20-60W	ET APAC
OSRAM	ET-REDBBACK 40VA/230-20	230-240, 50-60Hz	10-40W	ET APAC
OSRAM	ET-ZE 60/220-240	220-240, 50-60Hz	20-60W	ET
OSRAM	HALOTRNIC HTN75/230-240 I	230-240, 50-60Hz	20-75W	ET
OSRAM	HTB 105/220-240	220-240, 50-60Hz	35-105W	ET
OSRAM	HTB 70/220-240	220-240, 50-60Hz	20-70W	ET
OSRAM	HTL105/230-240	230-240, 50-60Hz	35-105W	ET
OSRAM	HTL225	220-240,50-60Hz	50-225W	ET
OSRAM	HTM 105/230-240	230-240, 50-60Hz	35-105W	ET
OSRAM	HTM 150/230-240	230-240, 50-60Hz	50-150W	ET
OSRAM	HTM 70/230-240	230-240, 50-60Hz	20-70W	ET
OSRAM	IZ-A50/240	240,50-60Hz	50W	ET India
OSRAM	IZ-HALD50/220-240	220-240, 50-60Hz	20-50W	ET APAC
OSRAM	OT30	220-240,50-60Hz	30W	OT
OSRAM	OT15	220-240,50-60Hz	15W	OT
OSRAM	OT60	220-240,50-60Hz	60W	OT

abi	SET210(50-210VA) AL50476	220-240V, 50Hz	50-210VA	ET
Berker	Igel 20-105w 2921	230-240,50-60Hz	20-105W	ET
Berker	SNT 70/QU 2918	230,50-60Hz	20-70W	ET
Berker	SNTF II 35-105W 2927	230,50-60Hz	35-105W	ET
BLOCK	HES 70K	230-240,50-60Hz	20-70W	ET
BLOCK	HES 105K	230-240,50-60Hz	35-105W	ET



MR16 Star 35
43519239
43519240
43518455



MR16 Essence 35
43019051
43519220
43618599



MR16 Star 43
43519241
43519242
43518456



MR16 Essence 50
43618600
43618601
43618602

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

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Manufacturer	Tranformer-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



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no. of lamps	no. of lamps	no. of lamps	no. of lamps
	1-4		1-3
1-5	1-4	1-5	
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

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 condiditons, 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.