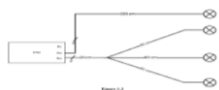


# Operation of low voltage LED-retrofit lamps Reflector AR111 G53 with different transformers

# 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



PC: Parallel circuit



SC: Series circuit

- ET: electronic transformer
- HT: Halotronic
- OT: Optotronic



**AR111 75**

43319535

43319536

Manufacturer	Transformer-Type, Model	Mains voltage	Load Range [W]	Type	Circuit	no. of lamps
OSRAM	ET-A 60/220-240	220-240, 50-60Hz	20-60	ET	RS & PS	1 - 2
OSRAM	ET-L 30/220-240	220-240, 50-60Hz	2-30	ET	RS & PS	1
OSRAM	IZ-A50/240	240,50-60Hz	50	ET	RS & PS	1
OSRAM	IZ-HALD50/220-240	220-240, 50-60Hz	20-50	ET	RS & PS	1
OSRAM	ET-ZE 60/220-240	220-240, 50-60Hz	20-60	ET	RS & PS	1 - 2
OSRAM	ET-Parrot70/220-240 I	220-240, 50-60Hz	20-70	ET	RS & PS	1 - 2
OSRAM	ET-Parrot105/220-240 I	220-240, 50-60Hz	35-105	ET	RS & PS	1 - 3
OSRAM	ET-Parrot150/220-240 I	220-240, 50-60Hz	50-150	ET	RS & PS	2 - 4
OSRAM	HTB 70/220-240	220-240, 50-60Hz	20-70	HT	RS & PS	1 - 4
OSRAM	HTB 105/220-240	220-240, 50-60Hz	35-105	HT	RS & PS	1 - 3
OSRAM	HTN 75/230-240 I	230-240, 50-60Hz	20-75	HT	RS & PS	1 - 2
OSRAM	HTM 70/230-240	230-240, 50-60Hz	20-70	HT	RS & PS	1 - 2
OSRAM	HTM 105/230-240	230-240, 50-60Hz	35-105	HT	RS & PS	1 - 3
OSRAM	HTM 150/230-240	230-240, 50-60Hz	50-150	HT	RS & PS	2 - 4
OSRAM	HTL105/230-240	230-240, 50-60Hz	35-105	HT	RS & PS	1 - 3
OSRAM	HTL225/230-240	230-240, 50-60Hz	50-225	HT	RS & PS	2 - 4
OSRAM	OT 15/220-240/12 P	220-240, 50-60Hz	15	OT		
OSRAM	OT 30/220-240/12 P	220-240, 50-60Hz	30	OT		1
OSRAM	OT 60/220-240/12 P	220-240, 50-60Hz				1 - 3
abi	SET210(50-210VA) AL50476	220-240, 50Hz	50-210	ET		1 - 4
Berker	Igel 20-105w 2921	230-240, 50-60Hz	20-105	ET		1 - 3
Berker	SNT 70/QU 2918	230,50-60Hz	20-70	ET		1 - 2
Berker	SNTF II 35-105W 2927	230,50-60Hz	35-105	ET		2 - 3
BLOCK	HES 70K	220-240, 50-60Hz	20-70	ET		1 - 2
BLOCK	HES 105K	220-240, 50-60Hz	35-105	ET		1 - 3
EVN	MINIJOKER 70 (T27/10)	\	70	ET	RS & PS	1 - 2
EVN	TAB 70 (3310)	230,50-60Hz	20-70	ET		1 - 2
EVN	CLOU 60 (T41/09)	230-240, 50-60Hz	10-60	ET		1 - 2
FN LIGHT	TL105S 20-105W 461107	230-240, 50-60Hz	20-105	ET		
goodbay	SET110LV(35-110W)	220-240, 50Hz	35-110	ET		1 - 3
JUNG	SNT 70 F	230,50-60Hz	20-70	ET	RS & PS	1 - 2
JUNG	SNT 105 F	230,50-60Hz	20-105	ET	RS & PS	1 - 3
nobile	EN-80F	230,50-60Hz	20-80	ET		
nobile	EN-60D2	230,50-60Hz	20-60	ET		1 - 2
Paulmann	Disc electronic S 70	230,50-60Hz	20-70	ET	RS & PS	1 - 2
Paulmann	Profi 80	230,50-60Hz	20-80	ET		1 - 2
Paulmann	Mipro 70	230,50-60Hz	20-70	ET		
PHILIPS	Primaline 70 230-240	230-240, 50-60Hz	20-70	ET		1

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.