

LED IP20 VALUE ELECTRONIC TRANSFORMER 12W CV12VAC DIM G2



Highlights:

- IP20 CV12V Electronic transformer for LED MR16 Lamp
- Input Vol./Fre: 220-240V 50/60Hz
- Long lifetime up to 35k hrs@tc max
- Suitable for leading and trailing edge phase cut dimming.
- SELV and suitable for build-in application

Application Areas:

- Shops
- Residential
- Hospital
- Hotel
- Art galleries and museum

Advancing Light

LEDVANCE is one of the World's leaders in general lighting for lighting professionals as well as end users, offering



A broad variety of LED luminaires



Advanced LED lamps



Intelligent, networked Smart Home & Smart Building solutions



Traditional light sources



LED IP20 VALUE ELECTRONIC TRANSFORMER 12W CV12VAC DIM G2



Product Features:

- Constant voltage 12V LED electronic transformer
- Design for low voltage 12V MR16 LED lamp
- IP20, for indoor application
- Average lifetime up to 35,000 hours
- Frequency: 50/60Hz
- Input Voltage: 220-240V
- Wattage: 3-12W
- Output Currents: 0.85-1A
- SELV and suitable for build-in application

Product Benefits:

- Long lifetime to reduce the maintenance cost
- High Power factor
- Suitable for leading and trailing edge phase cut dimming.
- 12VAC output
- Wide ambient temperature range -20 to +50°C
- Compact design, easy for installation
- SELV, more safety application



Application Areas:

- Shops
- Residential
- Hotel
- Hospital
- Art galleries and museum

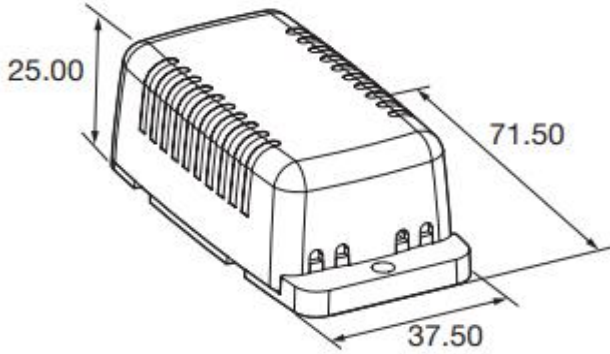


Product Information

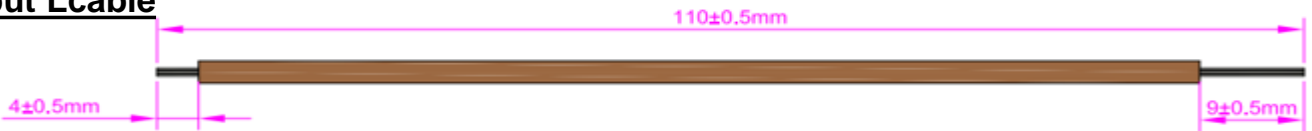
LED IP20 CV12V Electronic Transformer	LVED VAL 12/220-240/12VAC DIM G2
Model Name	LVED VAL 12/220-240/12VAC DIM G2
Rated Input Voltage	220-240V
Frequency	50/60Hz
Input Current	Max. 70mA
Input Wattage	Max.13W
Power Factor	> 0.95 @full load
No-Load Wattage	< 0.5W
THD	≤27% @full LED load
Output Power	11-13W
Output Voltage	11-13VAC
Output Current	0.85A-1A
Efficacy	≥87% @full load
Dimmable Feature	Phase-cut Dimming
Surge (L-N)	1.5KV
Protection function	Overload protec. /No-load protec. /Over temperature protec.
IP Rating	IP20
ta	-20-50°C
tc-max	65°C
Lifetime	35000hrs @tc-max,10% failure
Housing material	PC
Housing color	White
Dimension(mm)	71.5*37.5*25
Weight	47g
Cable cross-section, input side	0.5mm ²
Cable cross-section, output side	0.5mm ²
Cable length, input side	110mm
Cable length, output side	150mm
Certification	CB



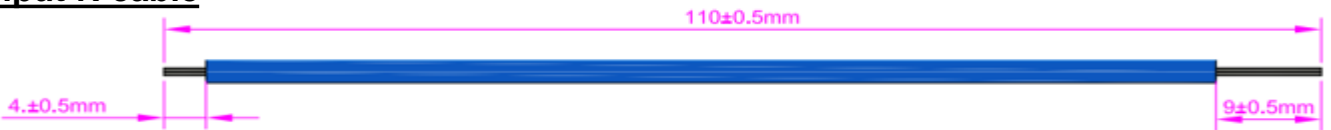
Drawing/Dimensions



Input L cable



Input N cable



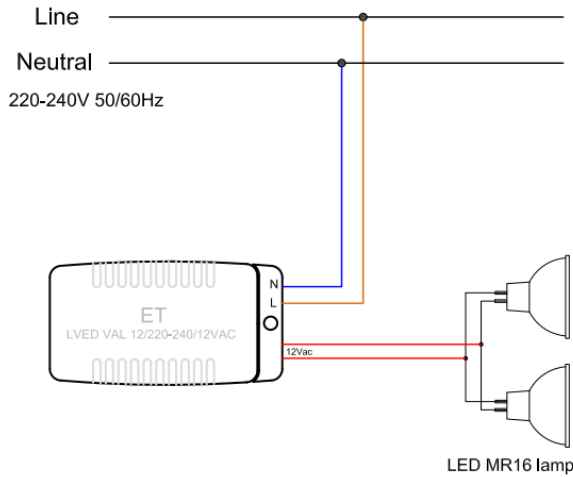
Output cables



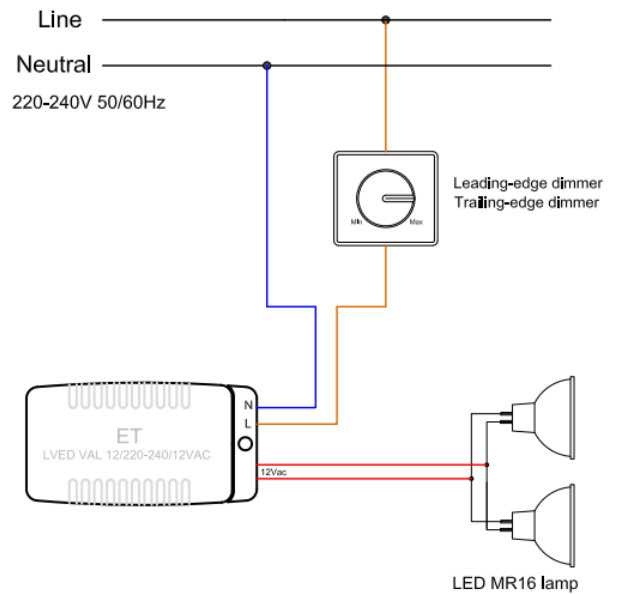


Wiring and Warning

Wiring diagram W/O dimmer



Wiring diagram W dimmer



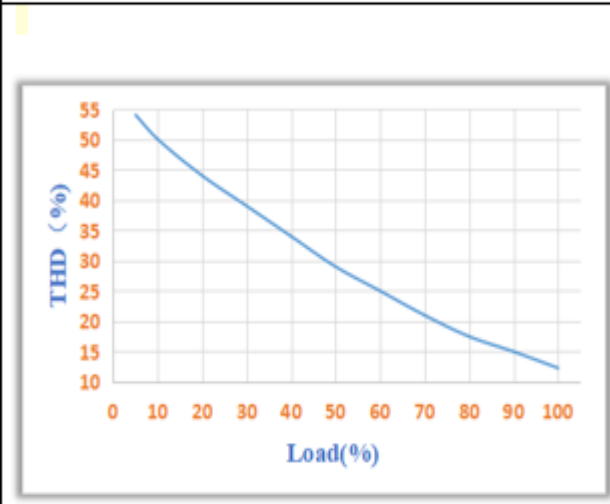
Installation and Application note:

- This driver is only suitable for indoor application.
- Max two lamps using in parallel and do not exceed rated 12W for total.
- Max casing temperature should not exceed 65°C.
- Lead wire from lamp to driver should be less than 2m. The distance between drivers should be above 20cm.
- Make sure the power supply is cut off when installation.
- The input wire and output wire must not cross each other.
- Output wiring (red) is **not** allowed to short-circuit, or to contact the main voltage.

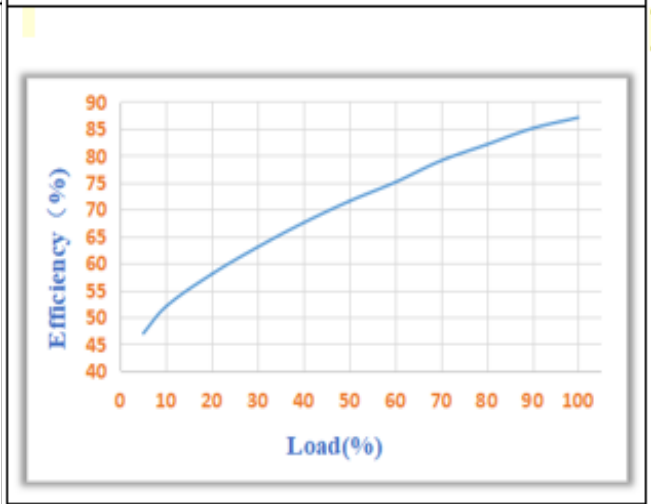


CURVES

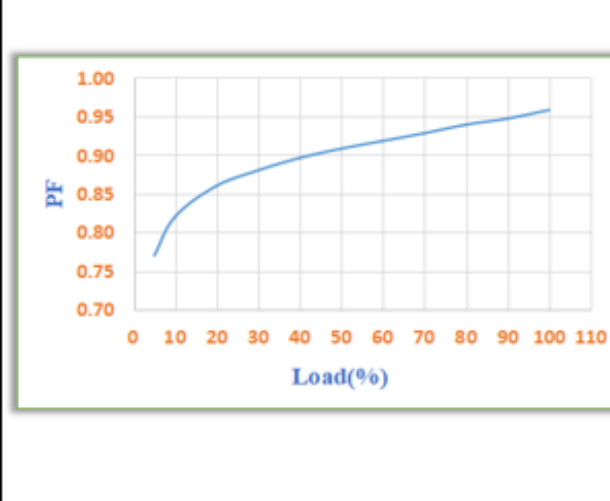
Typical THD V.S load *



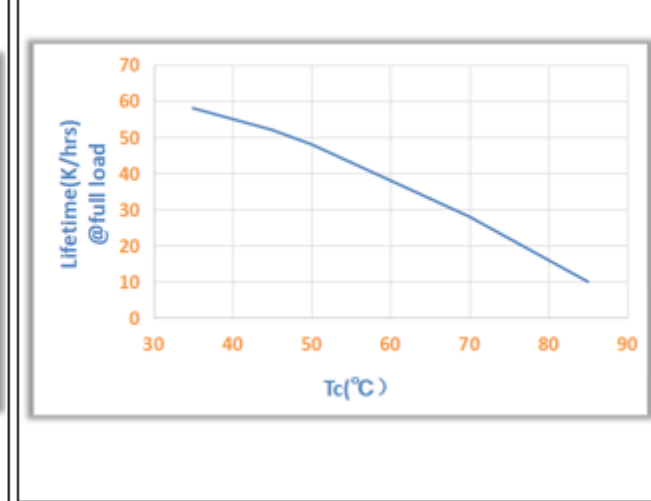
Typical Efficiency V.S load *



Typical Power factor V.S load *



Typical Lifetime V.S Tc



*Load is cement resistor

Compatibility with 12V LED MR16 Lamps

Non-Dimming List:

Brand	IC	EAN10	Shorttext
OSRAM	AC3220702ZS	4058075588158	LVMR165036 5.5W/82712V GU5.3 10X1AR7 OSRAM
OSRAM	AC3220801ZS	4058075588196	LVMR165036 5.5W/83012V GU5.3 10X1AR7 OSRAM
OSRAM	AC3220901ZS	4058075588219	LVMR165024 5.5W/82712V GU5.3 10X1AR7 OSRAM
OSRAM	AC3221001ZS	4058075588257	LVMR165060 5.5W/83012V GU5.3 10X1AR7 AU OSRAM
OSRAM	AC3221101ZS	4058075588295	LVMR165060 5.5W/83012V GU5.3 8X3AR7 AU OSRAM
OSRAM	AC3221201ZS	4058075588318	LVMR165060 5.5W/86512V GU5.3 10X1AR7 AU OSRAM
OSRAM	AC3221301ZS	4058075588332	LVMR165060 5.5W/86512V GU5.3 8X3AR7 AU OSRAM

Dimming List:

Brand	IC	EAN10	Shorttext
OSRAM	AC4385100ZS	4058075535336	LPMR165024 7.5W/927 12V GU5.3 10X1AR7 OSRAM
OSRAM	AC4385200ZS	4058075535350	LPMR165024 7.5W/930 12V GU5.3 10X1AR7 OSRAM
OSRAM	AC4385300ZS	4058075540187	LPMR165036 7.5W/927 12V GU5.3 10X1AR7 OSRAM
OSRAM	AC4385400ZS	4058075540200	LPMR165036 7.5W/930 12V GU5.3 10X1AR7 OSRAM
OSRAM	AC4385500ZS	4058075535374	LPMR165036 7.5W/965 12V GU5.3 10X1AR7 OSRAM
OSRAM	AC4385401ZS	4058075540224	LPMR165036 7.5W/930 12V GU5.3 10X1AR7 AU OSRAM
OSRAM	AC4385501ZS	4058075535398	LPMR165036 7.5W/965 12V GU5.3 10X1AR7 AU OSRAM
OSRAM	AC4385600ZS	4058075535411	LPMR165060 7.5W/930 12V GU5.3 10X1AR7 AU OSRAM
OSRAM	AC4385700ZS	4058075535435	LPMR165060 7.5W/940 12V GU5.3 10X1AR7 AU OSRAM
OSRAM	AC4385800ZS	4058075535459	LPMR165060 7.5W/965 12V GU5.3 10X1AR7 AU OSRAM
OSRAM	AC4439600ZS	4099854024597	LPMR165024D 6W/927 12V COB GU5.3 10X1 OSRAM
OSRAM	AC4439700ZS	4099854024610	LPMR165024D 6W/930 12V COB GU5.3 10X1 OSRAM
OSRAM	AC4439800ZS	4099854024634	LPMR165024D 6W/940 12V COB GU5.3 10X1 OSRAM

Note: It allow to connect 1 lamp or 2 lamps in parallel for above items.

Compatibility with 12V LED MR16 Lamps

Dimming List:

Brand	IC	EAN10	Shorttext
OSRAM	AC4439900ZS	4099854024658	LPMR165024D 6W/965 12VCOB GU5.310X1OSRAM
OSRAM	AC4440000ZS	4099854024672	LPMR165036D 6W/927 12VCOB GU5.310X1OSRAM
OSRAM	AC4440100ZS	4099854024696	LPMR165036D 6W/930 12VCOB GU5.310X1OSRAM
OSRAM	AC4440200ZS	4099854024719	LPMR165036D 6W/940 12VCOB GU5.310X1OSRAM
OSRAM	AC4440300ZS	4099854024733	LPMR165036D 6W/965 12VCOB GU5.310X1OSRAM
OSRAM	AC4440400ZS	4099854024757	LPMR165060D 6W/927 12VCOB GU5.310X1OSRAM
OSRAM	AC4440500ZS	4099854024771	LPMR165060D 6W/930 12VCOB GU5.310X1OSRAM
OSRAM	AC4440600ZS	4099854024795	LPMR165060D 6W/940 12VCOB GU5.310X1OSRAM
OSRAM	AC4440700ZS	4099854024818	LPMR165060D 6W/965 12VCOB GU5.310X1OSRAM
OSRAM	AC4440800ZS	4099854024832	LPMR165010D 6W/927 12VCOB GU5.310X1OSRAM
OSRAM	AC4440900ZS	4099854024856	LPMR165010D 6W/930 12VCOB GU5.310X1OSRAM
OSRAM	AC4441000ZS	4099854024870	LPMR165010D 6W/940 12VCOB GU5.310X1OSRAM
OSRAM	AC4441100ZS	4099854024894	LPMR165010D 6W/965 12VCOB GU5.310X1OSRAM
OSRAM	AC2874301DC	4058075535411	LPMR165060 7.5W/830 12V GU5.310X1AR6AUOSRAM
OSRAM	AC2874501DC	4058075535459	LPMR165060 7.5W/865 12V GU5.310X1AR6AUOSRAM
OSRAM	AC2874401DC	4058075535435	LPMR165060 7.5W/840 12V GU5.310X1AR6AUOSRAM
OSRAM	AC2915602DC	4058075540200	LPMR165036 7.5W/830 12V GU5.3 10X1AR6OSRAM
OSRAM	AC2874203DC	4058075535398	LPMR165036 7.5W/865 12V GU5.310X1AR6AUOSRAM
LEDVANCE	AC3579402ZS	4058075731325	LPMR165036 8W/4000K, 12V GU5.3 10X1TAULEDV
LEDVANCE	AC3579302ZS	4058075731301	LPMR165036 8W/2700K, 12V GU5.3 10X1TAULEDV

Note: It allow to connect 1 lamp or 2 lamps in parallel for above items.

Compatibility with Dimmers

Dimmer Compatibility List (connect with OSRAM LED lamp 7.5W)

Core dimmer

Extend dimmer

Version: AC SOURCE 230V 50HZ							max peak Dimmer current [A]	I_LED [mA] or Phi_LED [mV]		Dimming range (%)		
No.	Man.	MPN	Type	Range / VA	Voltage / V	Min*(A)		Max*(A)	Min	Max	Range	
1	Clipsal	E30 (32V500M)	L	500VA	230V / 50Hz	0.792	0.123	0.882	13.37%	95.87%	82.50%	
2	TCL-Legrand	V8051-M	L	40-630W	230V / 50Hz	0.790	0.122	0.877	13.26%	95.33%	82.07%	
3	Panasonic	WEG57813	L	40-300W	230V / 50Hz	0.856	0.145	0.884	15.76%	96.09%	80.33%	
4	LUMEX	LOADSMART LT1D450LS	T	500VA	230V / 50Hz	0.843	0.143	0.890	15.54%	96.74%	81.20%	
5	Schneider-Clipsal	KB31RD400	L	400W	230V / 50Hz	0.853	0.145	0.886	15.76%	96.30%	80.54%	
6	Clipsal	32E450UDM	T	450W	230V / 50Hz	0.887	0.123	0.887	13.37%	96.41%	83.04%	
7	HPM	CAT400T HPM	T	400W	230V / 50Hz	0.890	0.134	0.890	14.57%	96.74%	82.17%	
8	Trader	Dimpala	U	400W	230V / 50Hz	0.899	0.152	0.899	16.52%	97.72%	81.20%	
9	Clipsal	32ELEDM	T	400W	230V / 50Hz	0.868	0.291	0.868	31.63%	94.35%	62.72%	
10	Siemens	5UH8622-3NC01	L	25-400W	230V / 50Hz	0.835	0.143	0.889	15.54%	96.63%	81.09%	
11	Schneider-Electric	C460	L	400W	230V / 50Hz	0.827	0.112	0.901	12.17%	97.93%	85.76%	
12	Schneider-Electric	U201DST600	L	40-600VA	230V / 50Hz	0.929	0.114	0.920	12.39%	100.00%	87.61%	
13	Clipsal	32E450LM	L	450W	230V / 50Hz	0.830	0.119	0.869	12.93%	94.46%	81.52%	
14	Honyar	KT250	L	15-250W	230V / 50Hz	0.809	0.125	0.897	13.59%	97.50%	83.91%	
15	Schneider-Electric	40600 RL	L	40-600W	230V / 50Hz	0.836	0.142	0.893	15.43%	97.07%	81.63%	
16	Lutron	GXI-3104-T-CE-WH	T	2300W	230V / 50Hz	0.828	0.112	0.858	12.17%	93.26%	81.09%	
17	HPM	CAT400L	L	400W	230V / 50Hz	0.920	0.555	0.920	60.33%	100.00%	39.67%	
18	Panasonic	WMS549	L	40-400W	230V / 50Hz	0.843	0.145	0.886	15.76%	96.30%	80.54%	
19	SAL	SDA450	T	450W	230V / 50Hz	0.917	0.579	0.917	62.93%	99.67%	36.74%	
20	Siemens	5UH8122-3NC01	L	25-400W	230V / 50Hz	0.899	0.156	0.899	16.96%	97.72%	80.76%	
21	Schneider-Clipsal	E8431EPD4	T	25-350W	230V / 50Hz	0.920	0.176	0.920	19.13%	100.00%	80.87%	
22	Shuttle	SDIM-T-LED 500W	T	500W	230V / 50Hz	0.910	0.166	0.910	18.04%	98.91%	80.87%	
23	Shuttle	SDIMR-T-LED 500W	T	500W	230V / 50Hz	0.927	0.123	0.920	13.37%	100.00%	86.63%	
24	Shuttle	SDIM-T-LED 125W	T	125W	230V / 50Hz	0.909	0.132	0.909	14.35%	98.80%	84.46%	
25	Legrand	617030	L	600W	230V / 50Hz	0.913	0.124	0.913	13.48%	99.24%	85.76%	
26	SR SANJOON	SRD-1000	L	1000W	230V / 50Hz	0.901	0.121	0.901	13.15%	97.93%	84.78%	
27	JIN HEUNG ELECTF	JH-922473	L	1000W	230V / 50Hz	0.885	0.132	0.885	14.35%	96.20%	81.85%	
28	Shuttle	SDIMR-T-LED 250W	T	250W	230V / 50Hz	0.914	0.134	0.914	14.57%	99.35%	84.78%	

The compatibility test is based upon testing conducted by the manufacturer in a lab simulated environment, and the results can vary in certain field applications due to numbers of factors. The test results were achieved by using above mentioned LED-lamp types. LEDVANCE 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, or when using other LED lamp types.

LED lamps contain several electronic components. Under unfavorable 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 luminaries (acoustic resonance effect) as well as the dimmer or the transformer (harmonics or electronic resonance).



Compatibility with Dimmers

Dimmer Compatibility List (connect with OSRAM LED lamp 8W)

	Core dimmer
	Extend dimmer

Version: AC SOURCE 230V 50HZ							max peak Dimmer current [A]	I_LED [mA] or Phi_LED [mV]		Dimming range (%)		
No.	Man.	MPN	Type	Range / VA	Voltage / V	Min*(A)		Max*(A)	Min	Max	Range	
1	Clipsal	E30 (32V500M)	L	500VA	230V / 50Hz	0.780	0.102	0.780	12.91%	98.73%	85.82%	
2	TCL-Legrand	V8051-M	L	40-630W	230V / 50Hz	0.784	0.122	0.784	15.44%	99.24%	83.80%	
3	Panasonic	WEG57813	L	40-300W	230V / 50Hz	0.865	0.142	0.865	17.97%	109.49%	91.52%	
4	LUMEX	LOADSMART LT1D450LS	T	500VA	230V / 50Hz	0.882	0.132	0.882	16.71%	111.65%	94.94%	
6	Schneider-Clipsal	KB31RD400	L	400W	230V / 50Hz	0.834	0.125	0.834	15.82%	105.57%	89.75%	
7	Clipsal	32E450UDM	T	450W	230V / 50Hz	0.795	0.124	0.795	15.70%	100.63%	84.94%	
8	HPM	CAT400T HPM	T	400W	230V / 50Hz	0.844	0.113	0.844	14.30%	106.84%	92.53%	
9	Trader	Dimpala	U	400W	230V / 50Hz	0.831	0.123	0.831	15.57%	105.19%	89.62%	
10	Clipsal	32ELEDM	T	400W	230V / 50Hz	0.820	0.244	0.820	30.89%	103.80%	72.91%	
11	Siemens	5UH8622-3NC01	L	25-400W	230V / 50Hz	0.780	0.142	0.780	17.97%	98.73%	80.76%	
12	Schneider-Electric	C460	L	400W	230V / 50Hz	0.769	0.135	0.769	17.09%	97.34%	80.25%	
13	Schneider-Electric	U201DST600	L	40-600VA	230V / 50Hz	0.919	0.136	0.919	17.22%	116.33%	99.11%	
14	Clipsal	32E450LM	L	450W	230V / 50Hz	0.772	0.132	0.772	16.71%	97.72%	81.01%	
15	Honyar	KT250	L	15-250W	230V / 50Hz	0.776	0.123	0.776	15.57%	98.23%	82.66%	
16	Schneider-Electric	40600 RL	L	40-600W	230V / 50Hz	0.820	0.114	0.820	14.43%	103.80%	89.37%	
17	Lutron	GXI-3104-T-CE-WH	T	2300W	230V / 50Hz	0.781	0.148	0.781	18.73%	98.86%	80.13%	
18	HPM	CAT400L	L	400W	230V / 50Hz	0.886	0.558	0.886	70.63%	112.15%	41.52%	
19	Panasonic	WMS549	L	40-400W	230V / 50Hz	0.805	0.134	0.805	16.96%	101.90%	84.94%	
20	SAL	SDA450	T	450W	230V / 50Hz	0.791	0.602	0.791	76.20%	100.13%	23.92%	
21	Siemens	5UH8122-3NC01	L	25-400W	230V / 50Hz	0.789	0.133	0.789	16.84%	99.87%	83.04%	
22	Schneider-Clipsal	E8431EPD4	T	25-350W	230V / 50Hz	0.884	0.125	0.884	15.82%	111.90%	96.08%	
23	Shuttle	SDIM-T-LED 500W	T	500W	230V / 50Hz	0.774	0.136	0.774	17.22%	97.97%	80.76%	
24	Shuttle	SDIMR-T-LED 500W	T	500W	230V / 50Hz	0.776	0.126	0.776	15.95%	98.23%	82.28%	
25	Shuttle	SDIM-T-LED 125W	T	125W	230V / 50Hz	0.770	0.132	0.770	16.71%	97.47%	80.76%	
26	Legrand	617030	L	600W	230V / 50Hz	0.772	0.124	0.772	15.70%	97.72%	82.03%	
27	SR SANJOON	SRD-1000	L	1000W	230V / 50Hz	0.785	0.125	0.785	15.82%	99.37%	83.54%	
28	JIN HEUNG ELECTRI	JH-922473	L	1000W	230V / 50Hz	0.788	0.132	0.788	16.71%	99.75%	83.04%	
29	Shuttle	SDIMR-T-LED 250W	T	250W	230V / 50Hz	0.826	0.142	0.826	17.97%	104.56%	86.58%	

The compatibility test is based upon testing conducted by the manufacturer in a lab simulated environment, and the results can vary in certain field applications due to numbers of factors. The test results were achieved by using above mentioned LED-lamp types. LEDVANCE 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, or when using other LED lamp types.

LED lamps contain several electronic components. Under unfavorable 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 luminaries (acoustic resonance effect) as well as the dimmer or the transformer (harmonics or electronic resonance).



Compatibility with Dimmers

Dimmer Compatibility List (connect with OSRAM LED lamp 5.5W)

	Core dimmer
	Extend dimmer

Version: AC SOURCE 230V 50HZ						max peak Dimmer current [A]	I_LED [mA] or Phi_LED [mV]		Dimming range (%)		
No.	Man.	MPN	Type	Range / VA	Voltage / V		Min*(A)	Max*(A)	Min	Max	Range
1	Clipsal	E30 (32V500M)	L	500VA	230V / 50Hz	1.280	0.101	1.280	7.01%	88.89%	81.88%
2	TCL-Legrand	V8051-M	L	40-630W	230V / 50Hz	1.270	0.115	1.270	7.99%	88.19%	80.21%
3	Panasonic	WEG57813	L	40-300W	230V / 50Hz	1.440	0.245	1.440	17.01%	100.00%	82.99%
4	LUMEX	LOADSMART LT1D450LS	T	500VA	230V / 50Hz	1.320	0.114	1.320	7.92%	91.67%	83.75%
6	Schneider-Clipsal	KB31RD400	L	400W	230V / 50Hz	1.290	0.132	1.290	9.17%	89.58%	80.42%
7	Clipsal	32E450UDM	T	450W	230V / 50Hz	1.330	0.133	1.330	9.24%	92.36%	83.13%
8	HPM	CAT400T HPM	T	400W	230V / 50Hz	1.290	0.106	1.290	7.36%	89.58%	82.22%
9	Trader	Dimpala	U	400W	230V / 50Hz	1.280	0.103	1.280	7.15%	88.89%	81.74%
10	Clipsal	32ELEDM	T	400W	230V / 50Hz	1.190	0.123	1.190	8.54%	82.64%	74.10%
11	Siemens	SUH8622-3NC01	L	25-400W	230V / 50Hz	1.360	0.121	1.360	8.40%	94.44%	86.04%
12	Schneider-Electric	C460	L	400W	230V / 50Hz	1.290	0.132	1.290	9.17%	89.58%	80.42%
13	Schneider-Electric	U201DST600	L	40-600VA	230V / 50Hz	1.370	0.120	1.370	8.33%	95.14%	86.81%
14	Clipsal	32E450LM	L	450W	230V / 50Hz	1.290	0.134	1.290	9.31%	89.58%	80.28%
15	Honyar	KT250	L	15-250W	230V / 50Hz	1.300	0.141	1.300	9.79%	90.28%	80.49%
16	Schneider-Electric	40600 RL	L	40-600W	230V / 50Hz	1.400	0.134	1.400	9.31%	97.22%	87.92%
17	Lutron	GXI-3104-T-CE-WH	T	2300W	230V / 50Hz	1.320	0.156	1.320	10.83%	91.67%	80.83%
18	HPM	CAT400L	L	400W	230V / 50Hz	1.440	0.324	1.440	22.50%	100.00%	77.50%
19	Panasonic	WMS549	L	40-400W	230V / 50Hz	1.300	0.144	1.300	10.00%	90.28%	80.28%
20	SAL	SDA450	T	450W	230V / 50Hz	1.310	0.286	1.310	19.86%	90.97%	71.11%
21	Siemens	SUH8122-3NC01	L	25-400W	230V / 50Hz	1.300	0.114	1.300	7.92%	90.28%	82.36%
22	Schneider-Clipsal	E8431EPD4	T	25-350W	230V / 50Hz	1.310	0.123	1.310	8.54%	90.97%	82.43%
23	Shuttle	SDIM-T-LED 500W	T	500W	230V / 50Hz	1.310	0.122	1.310	8.47%	90.97%	82.50%
24	Shuttle	SDIMR-T-LED 500W	T	500W	230V / 50Hz	1.300	0.126	1.300	8.75%	90.28%	81.53%
25	Shuttle	SDIM-T-LED 125W	T	125W	230V / 50Hz	1.340	0.124	1.340	8.61%	93.06%	84.44%
26	Legrand	617030	L	600W	230V / 50Hz	1.300	0.122	1.300	8.47%	90.28%	81.81%
27	SR SANJOON	SRD-1000	L	1000W	230V / 50Hz	1.290	0.114	1.290	7.92%	89.58%	81.67%
28	JIN HEUNG ELECTRIC	JH-922473	L	1000W	230V / 50Hz	1.280	0.112	1.280	7.78%	88.89%	81.11%
29	Shuttle	SDIMR-T-LED 250W	T	250W	230V / 50Hz	1.290	0.101	1.290	7.01%	89.58%	82.57%

The compatibility test is based upon testing conducted by the manufacturer in a lab simulated environment, and the results can vary in certain field applications due to numbers of factors. The test results were achieved by using above mentioned LED-lamp types. LEDVANCE 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, or when using other LED lamp types.

LED lamps contain several electronic components. Under unfavorable 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 luminaries (acoustic resonance effect) as well as the dimmer or the transformer (harmonics or electronic resonance).

Compatibility with Dimmers

Dimmer Compatibility List (connect with OSRAM LED lamp 6.5W)

	Core dimmer
	Extend dimmer

Version: AC SOURCE 230V 50HZ						max peak Dimmer current [A]	I_LED [mA] or Phi_LED [mV]		Dimming range (%)		
No.	Man.	MPN	Type	Range / VA	Voltage / V		Min*(A)	Max*(A)	Min	Max	Range
1	Clipsal	E30 (32V500M)	L	500VA	230V / 50Hz	0.721	0.102	0.721	13.78%	97.43%	83.65%
2	TCL-Legrand	V8051-M	L	40-630w	230V / 50Hz	0.732	0.106	0.732	14.32%	98.92%	84.59%
3	Panasonic	WEG57813	L	40-300w	230V / 50Hz	0.723	0.112	0.723	15.14%	97.70%	82.57%
4	LUMEX	LOADSMART LT1D450LS	T	500VA	230V / 50Hz	0.712	0.114	0.712	15.41%	96.22%	80.81%
6	Schneider-Clipsal	KB31RD400	L	400w	230V / 50Hz	0.722	0.122	0.722	16.49%	97.57%	81.08%
7	Clipsal	32E450UOM	T	450w	230V / 50Hz	0.733	0.123	0.733	16.62%	99.05%	82.43%
8	HPM	CAT400T HPM	T	400w	230V / 50Hz	0.734	0.124	0.734	16.76%	99.19%	82.43%
9	Trader	Dimpala	U	400w	230V / 50Hz	0.721	0.119	0.721	16.08%	97.43%	81.35%
10	Clipsal	32ELEDM	T	400w	230V / 50Hz	0.701	0.231	0.701	31.22%	94.73%	63.51%
11	Siemens	SUH8622-3NC01	L	25-400w	230V / 50Hz	0.725	0.123	0.725	16.62%	97.97%	81.35%
12	Schneider-Electric	C460	L	400w	230V / 50Hz	0.716	0.121	0.716	16.35%	96.76%	80.41%
13	Schneider-Electric	U201DST600	L	40-600VA	230V / 50Hz	0.724	0.131	0.724	17.70%	97.84%	80.14%
14	Clipsal	32E450LM	L	450w	230V / 50Hz	0.718	0.121	0.718	16.35%	97.03%	80.68%
15	Honyar	KT250	L	15-250w	230V / 50Hz	0.724	0.115	0.724	15.54%	97.84%	82.30%
16	Schneider-Electric	40600 RL	L	40-600w	230V / 50Hz	0.719	0.122	0.719	16.49%	97.16%	80.68%
17	Lutron	GXI-3104-T-CE-WH	T	2300w	230V / 50Hz	0.733	0.125	0.733	16.89%	99.05%	82.16%
18	HPM	CAT400L	L	400w	230V / 50Hz	0.740	0.553	0.740	74.73%	100.00%	25.27%
19	Panasonic	WMS549	L	40-400w	230V / 50Hz	0.732	0.124	0.732	16.76%	98.92%	82.16%
20	SAL	SDA450	T	450w	230V / 50Hz	0.686	0.527	0.686	71.22%	92.70%	21.49%
21	Siemens	SUH8122-3NC01	L	25-400w	230V / 50Hz	0.731	0.122	0.731	16.49%	98.78%	82.30%
22	Schneider-Clipsal	E8431EPD4	T	25-350w	230V / 50Hz	0.725	0.124	0.725	16.76%	97.97%	81.22%
23	Shuttle	SDIM-T-LED 500w	T	500w	230V / 50Hz	0.719	0.125	0.719	16.89%	97.16%	80.27%
24	Shuttle	SDIMR-T-LED 500w	T	500w	230V / 50Hz	0.724	0.129	0.724	17.43%	97.84%	80.41%
25	Shuttle	SDIM-T-LED 125w	T	125w	230V / 50Hz	0.726	0.131	0.726	17.70%	98.11%	80.41%
26	Legrand	617030	L	600w	230V / 50Hz	0.734	0.133	0.734	17.97%	99.19%	81.22%
27	SR SANJOON	SRD-1000	L	1000w	230V / 50Hz	0.718	0.123	0.718	16.62%	97.03%	80.41%
28	JIN HEUNG ELECTR	JH-922473	L	1000w	230V / 50Hz	0.714	0.112	0.714	15.14%	96.49%	81.35%
29	Shuttle	SDIMR-T-LED 250w	T	250w	230V / 50Hz	0.720	0.114	0.720	15.41%	97.30%	81.89%

The compatibility test is based upon testing conducted by the manufacturer in a lab simulated environment, and the results can vary in certain field applications due to numbers of factors. The test results were achieved by using above mentioned LED-lamp types. LEDVANCE 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, or when using other LED lamp types.

LED lamps contain several electronic components. Under unfavorable 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 luminaries (acoustic resonance effect) as well as the dimmer or the transformer (harmonics or electronic resonance).

Compatibility with Dimmers

Dimmer Compatibility List (connect with OSRAM 2X LED lamp 6.5W)

	Core dimmer
	Extend dimmer

Version: AC SOURCE 230V 50Hz						max peak Dimmer current [A]	I_LED [mA] or Phi_LED [mV]		Dimming range (%)		
No.	Man.	MPN	Type	Range e / VA	Volta ge / V		Min*(A)	Max*(A)	Min	Max	Range
1	Clipsal	E30 (32V500M)	L	500VA	230V / 50Hz	1.300	0.212	1.300	15.82%	97.01%	81.19%
2	TCL-Legrand	V8051-M	L	40-630W	230V / 50Hz	1.280	0.202	1.280	15.07%	95.52%	80.45%
3	Panasonic	WEG57813	L	40-300W	230V / 50Hz	1.340	0.209	1.340	15.60%	100.00%	84.40%
4	LUMEX	LOADSMART LT1D450LS	T	500VA	230V / 50Hz	1.340	0.211	1.340	15.75%	100.00%	84.25%
6	Schneider-Clipsal	KB31RD400	L	400W	230V / 50Hz	1.310	0.216	1.310	16.12%	97.76%	81.64%
7	Clipsal	32E450UDM	T	450W	230V / 50Hz	1.270	0.195	1.270	14.55%	94.78%	80.22%
8	HPM	CAT400T HPM	T	400W	230V / 50Hz	1.370	0.224	1.370	16.72%	102.24%	85.52%
9	Trader	Dimpala	U	400W	230V / 50Hz	1.330	0.230	1.330	17.16%	99.25%	82.09%
10	Clipsal	32ELEDM	T	400W	230V / 50Hz	1.320	0.605	1.320	45.15%	98.51%	53.36%
11	Siemens	5UH8622-3NC01	L	25-400W	230V / 50Hz	1.260	0.184	1.260	13.73%	94.03%	80.30%
12	Schneider-Electric	C460	L	400W	230V / 50Hz	1.250	0.175	1.250	13.06%	93.28%	80.22%
13	Schneider-Electric	U201DST600	L	40-600VA	230V / 50Hz	1.340	0.201	1.340	15.00%	100.00%	85.00%
14	Clipsal	32E450LM	L	450W	230V / 50Hz	1.260	0.165	1.260	12.31%	94.03%	81.72%
15	Honyar	KT250	L	15-250W	230V / 50Hz	1.250	0.174	1.250	12.99%	93.28%	80.30%
16	Schneider-Electric	40600 RL	L	40-600W	230V / 50Hz	1.310	0.205	1.310	15.30%	97.76%	82.46%
17	Lutron	GXI-3104-T-CE-WH	T	2300W	230V / 50Hz	1.240	0.155	1.240	11.57%	92.54%	80.97%
18	HPM	CAT400L	L	400W	230V / 50Hz	1.340	0.805	1.340	60.07%	100.00%	39.93%
19	Panasonic	WMS549	L	40-400W	230V / 50Hz	1.250	0.146	1.250	10.90%	93.28%	82.39%
20	SAL	SDA450	T	450W	230V / 50Hz	1.290	0.710	1.290	52.99%	96.27%	43.28%
21	Siemens	5UH8122-3NC01	L	25-400W	230V / 50Hz	1.240	0.164	1.240	12.24%	92.54%	80.30%
22	Schneider-Clipsal	E8431EPD4	T	25-350W	230V / 50Hz	1.360	0.214	1.360	15.97%	101.49%	85.52%
23	Shuttle	SDIM-T-LED 500W	T	500W	230V / 50Hz	1.250	0.166	1.250	12.39%	93.28%	80.90%
24	Shuttle	SDIMR-T-LED 500W	T	500W	230V / 50Hz	1.310	0.211	1.310	15.75%	97.76%	82.01%
25	Shuttle	SDIM-T-LED 125W	T	125W	230V / 50Hz	1.320	0.203	1.320	15.15%	98.51%	83.36%
26	Legrand	617030	L	600W	230V / 50Hz	1.280	0.205	1.280	15.30%	95.52%	80.22%
27	SR SANJOON	SRD-1000	L	1000W	230V / 50Hz	1.330	0.224	1.330	16.72%	99.25%	82.54%
28	JIN HEUNG ELECTRIC	JH-922473	L	1000W	230V / 50Hz	1.300	0.223	1.300	16.64%	97.01%	80.37%
29	Shuttle	SDIMR-T-LED 250W	T	250W	230V / 50Hz	1.280	0.205	1.280	15.30%	95.52%	80.22%

The compatibility test is based upon testing conducted by the manufacturer in a lab simulated environment, and the results can vary in certain field applications due to numbers of factors. The test results were achieved by using above mentioned LED-lamp types. LEDVANCE 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, or when using other LED lamp types.

LED lamps contain several electronic components. Under unfavorable 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 luminaries (acoustic resonance effect) as well as the dimmer or the transformer (harmonics or electronic resonance).

Compatibility with Dimmers

Dimmer Compatibility List (connect with OSRAM LED lamp 6W)

	Core dimmer
	Extend dimmer

Version: AC SOURCE 230V 50HZ							max peak Dimmer current [A]	I_LED [mA] or Phi_LED [mV]		Dimming range (%)		
No.	Man.	MPN	Type	Range / VA	Voltage / V	Min*(A)		Max*(A)	Min	Max	Range	
1	Clipsal	E30 (32V500M)	L	500VA	230V / 50Hz	0.720	0.102	0.720	14.07%	99.31%	85.24%	
2	TCL-Legrand	V8051-M	L	40-630W	230V / 50Hz	0.719	0.106	0.719	14.62%	99.17%	84.55%	
3	Panasonic	WEG57813	L	40-300W	230V / 50Hz	0.722	0.112	0.722	15.45%	99.59%	84.14%	
4	LUMEX	LOADSMART LT1D450LS	T	500VA	230V / 50Hz	0.718	0.114	0.718	15.72%	99.03%	83.31%	
6	Schneider-Clipsal	KB31RD400	L	400W	230V / 50Hz	0.715	0.122	0.715	16.83%	98.62%	81.79%	
7	Clipsal	32E450UDM	T	450W	230V / 50Hz	0.706	0.123	0.706	16.97%	97.38%	80.41%	
8	HPM	CAT400T HPM	T	400W	230V / 50Hz	0.709	0.124	0.709	17.10%	97.79%	80.69%	
9	Trader	Dimpala	U	400W	230V / 50Hz	0.712	0.119	0.712	16.41%	98.21%	81.79%	
10	Clipsal	32ELEDM	T	400W	230V / 50Hz	0.698	0.231	0.698	31.86%	96.28%	64.41%	
11	Siemens	5UH8622-3NC01	L	25-400W	230V / 50Hz	0.715	0.122	0.715	16.83%	98.62%	81.79%	
12	Schneider-Electric	C460	L	400W	230V / 50Hz	0.711	0.121	0.711	16.69%	98.07%	81.38%	
13	Schneider-Electric	U201DST600	L	40-600VA	230V / 50Hz	0.721	0.131	0.721	18.07%	99.45%	81.38%	
14	Clipsal	32E450LM	L	450W	230V / 50Hz	0.709	0.121	0.709	16.69%	97.79%	81.10%	
15	Honyar	KT250	L	15-250W	230V / 50Hz	0.704	0.115	0.704	15.86%	97.10%	81.24%	
16	Schneider-Electric	40600 RL	L	40-600W	230V / 50Hz	0.711	0.125	0.711	17.24%	98.07%	80.83%	
17	Lutron	GXI-3104-T-CE-WH	T	2300W	230V / 50Hz	0.708	0.125	0.708	17.24%	97.66%	80.41%	
18	HPM	CAT400L	L	400W	230V / 50Hz	0.711	0.553	0.711	76.28%	98.07%	21.79%	
19	Panasonic	WM5549	L	40-400W	230V / 50Hz	0.712	0.124	0.712	17.10%	98.21%	81.10%	
20	SAL	SDA450	T	450W	230V / 50Hz	0.686	0.527	0.686	72.69%	94.62%	21.93%	
21	Siemens	5UH8122-3NC01	L	25-400W	230V / 50Hz	0.722	0.122	0.722	16.83%	99.59%	82.76%	
22	Schneider-Clipsal	E8431EPD4	T	25-350W	230V / 50Hz	0.712	0.124	0.712	17.10%	98.21%	81.10%	
23	Shuttle	SDIM-T-LED 500W	T	500W	230V / 50Hz	0.709	0.125	0.709	17.24%	97.79%	80.55%	
24	Shuttle	SDIMR-T-LED 500W	T	500W	230V / 50Hz	0.719	0.132	0.719	18.21%	99.17%	80.97%	
25	Shuttle	SDIM-T-LED 125W	T	125W	230V / 50Hz	0.715	0.129	0.715	17.79%	98.62%	80.83%	
26	Legrand	617030	L	600W	230V / 50Hz	0.714	0.128	0.714	17.66%	98.48%	80.83%	
27	SR SANJOON	SRD-1000	L	1000W	230V / 50Hz	0.718	0.121	0.718	16.69%	99.03%	82.34%	
28	JIN HEUNG ELECTRIC	JH-922473	L	1000W	230V / 50Hz	0.714	0.123	0.714	16.97%	98.48%	81.52%	
29	Shuttle	SDIMR-T-LED 250W	T	250W	230V / 50Hz	0.720	0.122	0.720	16.83%	99.31%	82.48%	

The compatibility test is based upon testing conducted by the manufacturer in a lab simulated environment, and the results can vary in certain field applications due to numbers of factors. The test results were achieved by using above mentioned LED-lamp types. LEDVANCE 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, or when using other LED lamp types.

LED lamps contain several electronic components. Under unfavorable 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 luminaries (acoustic resonance effect) as well as the dimmer or the transformer (harmonics or electronic resonance).

Compatibility with Dimmers

Dimmer Compatibility List (connect with OSRAM 2xLED lamp 6W)

	Core dimmer
	Extend dimmer

Version: AC SOURCE 230V 50HZ							max peak Dimmer current [A]	I_LED [mA] or Phi_LED [mV]		Dimming range (%)		
No.	Man.	MPN	Type	Range / VA	Voltage / V	Min*(A)		Max*(A)	Min	Max	Range	
1	Clipsal	E30 (32V500M)	L	500VA	230V / 50Hz	1.300	0.226	1.300	17.38%	100.00%	82.62%	
2	TCL-Legrand	V8051-M	L	40-630W	230V / 50Hz	1.280	0.224	1.280	17.23%	98.46%	81.23%	
3	Panasonic	WEG57813	L	40-300W	230V / 50Hz	1.290	0.235	1.290	18.08%	99.23%	81.15%	
4	LUMEX	LOADSMART LT1D450LS	T	500VA	230V / 50Hz	1.270	0.229	1.270	17.62%	97.69%	80.08%	
6	Schneider-Clipsal	KB31RD400	L	400W	230V / 50Hz	1.280	0.233	1.280	17.92%	98.46%	80.54%	
7	Clipsal	32E450UDM	T	450W	230V / 50Hz	1.270	0.212	1.270	16.31%	97.69%	81.38%	
8	HPM	CAT400T HPM	T	400W	230V / 50Hz	1.300	0.239	1.300	18.38%	100.00%	81.62%	
9	Trader	Dimpala	U	400W	230V / 50Hz	1.290	0.249	1.290	19.15%	99.23%	80.08%	
10	Clipsal	32ELEDM	T	400W	230V / 50Hz	1.290	0.605	1.290	46.54%	99.23%	52.69%	
11	Siemens	SUH8622-3NC01	L	25-400W	230V / 50Hz	1.280	0.228	1.280	17.54%	98.46%	80.92%	
12	Schneider-Electric	C460	L	400W	230V / 50Hz	1.270	0.226	1.270	17.38%	97.69%	80.31%	
13	Schneider-Electric	U201DST600	L	40-600VA	230V / 50Hz	1.290	0.225	1.290	17.31%	99.23%	81.92%	
14	Clipsal	32E450LM	L	450W	230V / 50Hz	1.280	0.234	1.280	18.00%	98.46%	80.46%	
15	Honyar	KT250	L	15-250W	230V / 50Hz	1.270	0.222	1.270	17.08%	97.69%	80.62%	
16	Schneider-Electric	40600 RL	L	40-600W	230V / 50Hz	1.280	0.224	1.280	17.23%	98.46%	81.23%	
17	Lutron	GXI-3104-T-CE-WH	T	2300W	230V / 50Hz	1.240	0.195	1.240	15.00%	95.38%	80.38%	
18	HPM	CAT400L	L	400W	230V / 50Hz	1.280	0.805	1.280	61.92%	98.46%	36.54%	
19	Panasonic	WMS549	L	40-400W	230V / 50Hz	1.250	0.156	1.250	12.00%	96.15%	84.15%	
20	SAL	SDA450	T	450W	230V / 50Hz	1.290	0.710	1.290	54.62%	99.23%	44.62%	
21	Siemens	SUH8122-3NC01	L	25-400W	230V / 50Hz	1.240	0.184	1.240	14.15%	95.38%	81.23%	
22	Schneider-Clipsal	E8431EPD4	T	25-350W	230V / 50Hz	1.280	0.174	1.280	13.38%	98.46%	85.08%	
23	Shuttle	SDIM-T-LED 500W	T	500W	230V / 50Hz	1.250	0.166	1.250	12.77%	96.15%	83.38%	
24	Shuttle	SDIMR-T-LED 500W	T	500W	230V / 50Hz	1.290	0.244	1.290	18.77%	99.23%	80.46%	
25	Shuttle	SDIM-T-LED 125W	T	125W	230V / 50Hz	1.270	0.203	1.270	15.62%	97.69%	82.08%	
26	Legrand	617030	L	600W	230V / 50Hz	1.280	0.214	1.280	16.46%	98.46%	82.00%	
27	SR SANJOON	SRD-1000	L	1000W	230V / 50Hz	1.280	0.234	1.280	18.00%	98.46%	80.46%	
28	JIN HEUNG ELECTRIC	JH-922473	L	1000W	230V / 50Hz	1.280	0.215	1.280	16.54%	98.46%	81.92%	
29	Shuttle	SDIMR-T-LED 250W	T	250W	230V / 50Hz	1.280	0.223	1.280	17.15%	98.46%	81.31%	

The compatibility test is based upon testing conducted by the manufacturer in a lab simulated environment, and the results can vary in certain field applications due to numbers of factors. The test results were achieved by using above mentioned LED-lamp types. LEDVANCE 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, or when using other LED lamp types.

LED lamps contain several electronic components. Under unfavorable 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 luminaries (acoustic resonance effect) as well as the dimmer or the transformer (harmonics or electronic resonance).



Ordering Information

Description	Model number	Shipping quantity	EAN-10	EAN-40
LVED VAL 12/220-240/12V ACDIM50X1G2LEDV	LVED VAL 12/220-240/12VAC DIM G2	50	4099854077036	4099854077043