【B to B : Professional LED】

Panasonic GU5.3 12V Halogen LED Non-Dimmer Transformer Compatibility

Recommended Transformer List —> Please check Important remarks below

	: No Flicker 1～5 lamp
	: No flicker with X-Y lamp(X,Y:number of lamps)
	: No Compatibility
–	: Configuration not tested

Panasonic

25-03-2015

No.	Company	Model #	LDR12V4L27MG5 LDR12V4L27WG5 LDR12V4W40MG5 LDR12V4W40WG5 (4W type)	LDR12V6L27WG5EP (6W type)	NEW LDR12V6L27WG52EP (6W type)	LDR12V10L27WG5EP (8W type)
1	ABB	ETR 50-230/12KF	×	×	×	1
2		ETR 70-230/12KF	×	×	×	1-2
3		ETR 105-230/12KF	×	×	×	1-2
4	ALS	TRE-105	×	×	×	–
5	Art.	125/105SA	–	–	1-3	–
6	GENERAL LIGHTING	1200-0	–	–	–	–
7	GIRA	0366 00	1-2	1-2	1-2	–
8		0367 00 SNT40	1-2	1	1	1
8		0375 00 /101	–	–	3-4	1-4
9	JUNG	SNT 40	1-2	1	1	–
10		SNT 70 Q	1-3	1-2	2	–
11		SNT 105 F	1-5	1-3	1-2	–
12	MOLTO LUCE	T 105	×	×	–	1-2
13	NATIONAL ELECTRIC		–	–	–	1-2
14	nobile	EN-60D	1-3	1	1	2
15		EN-110D	1-5	1-3	1-3	–
16		EN-150D	1-5	1-4	1-4	–
17		EN-200D	×	×	1-4	–
18		EN 250D	×	×	×	–
19	OSRAM	ET-A 60/220-240	×	×	1	1
		ET-PARROT 70W/220-240 I	×	×	1-2	1-2
		ET-PARROT 105W/220-240 I	×	×	1-3	1-2
20		ET-PARROT 150W/220-240 I	–	–	×	–
		ET-REDBACK 60VA/230-240	–	–	1	–
23		HTL 105/230-240	3-5	3	2-3	1-2
24		HTL 225/230-240	×	×	×	–
25		HTM 70/230-240	1	×	1-2	1-2
26		HTM 105/230-240	1-5	1-3	1-3	1-2
27		HTM 150/230-240	×	×	×	1-3
28		HTN 75/230-240	×	×	1-2	1-2
29	Plilips	ET-E 60/220-240	2-3	2	1	1
30		Primaline70 230-240	×	×	1-2	2
31		Primaline150 230-240	1-5	1-4	1-4	1-3
32	PROTEC	PTEL E 35	1	1	1	×
33		PTEL R 60	2-3	1	1	1
34		PTEL 70K	1-3	1-2	1-2	–
35		PTEL 110	1-5	1-3	1-3	2
36		PTEL SK 110	×	×	1-3	–
37	Relco	RN1604	×	×	1-3	×
38		RN1650	2-3	1-2	2	2
39	VOSSLOH SCHWABE	EST35/12.650	1	1	×	1
40		EST60/12.388	×	×	1	×
41		EST60/12.633	×	×	×	1
42		EST60/12.635	×	×	1	1
43		EST70/12.380	×	×	1-2	1
44		EST105/12.381	×	×	1-3	1-2
45		EST105/12.644	×	×	1-3	1-2
46		EST150/12.622	×	×	1-4	1-3

- In specific range, there is possibility that flicker happen.
- Please reference the Transformer manufacturer's instructions for installation.
- 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.
- This experimental results only checked with 230V. In case of input voltage is very high, there is some possiblity the result may change.
- This list is not guarantee performance and safty. Please check in actual situation.
- Load Range(W) is based on incandescent lamp wattage, that quantity of incandescent lamp should become the same quantity of LED lamp when replaced.

【B to B : Professional LED】

Panasonic GU5.3 35W equivalent Halogen LED Dimmer Compatibility Recommended Dimmer and Transformer List

—> Please check Important remarks below

X-Y Lx percentage of dimming range
10-100% Dimmable range is from 10%-100%
30-100% Dimmable range is from 30%-100%
40-100% Dimmable range is from 40%-100%
Not recommend.The majority of configurations show undesirable dimming behavior
Configuration not tested
Lamp is not designed for use with this dimmer type
Name New added since previous version

Panasonic

20-11-2014

Recommended Dimmer & Transformer List								Transformer											
LDR12V6L27MG5D LDR12V6L27WG5D LDR12V6L30MG5D LDR12V6L30WG5D								Manufacturer	Relco		Relco		Osram		Nobile		VOSSLOH SCHWABE		PROTEC	
								Type	S 50 DT-C (Magnetic)		ICE 105 PFS TH		HTM105/230-240		EN-60D		EST105/12.644		PTEL110	
								Load	L		C		R,L,C		C		L,C		C	
	Manufacturer	Type	Load	W/VA	DownTrans	Trailing/Leading	Adjust vol.	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps.	Dimmable range
Dimmer	ALTENBURGER	50.13.010	R,L	60-1300W /VA	Magnetic	Leading	Min./Max.	1		1		1		1		1		1	
								2	20-100%	2		2		2		2		2	
								5		5		5		5		5		5	
		50.13.110	R,C	15-700W /VA	Electronic	Trailing	Min./Max.	1		1		1		1		1-2		1	
								2		2	20-100%	2	20-100%	2	20-100%	3	10-100%	2	
								5		5	10-100%	5		5		5	30-100%	5	
		50.13.111	R,C	15-1400W /VA	Electronic	Trailing	Min./Max.	1		1		1		1		1-2		1	
								2		2		2	20-100%	2	20-100%	3	10-100%	2	
								5		5		5		5		5	30-100%	3-5	
		50.13.210	R,L	60-2000W /VA	Magnetic	Leading	Min./Max.	1	30-100%	1		1		1		1		1	
								2	30-100%	2		2		2		2		2	
								5	20-100%	5		5		5		5		5	
		80.13.064	R,C	60-1400W /VA	Electronic	Trailing	Min./Max.	1		1		1		1		1		1	
								2		2		2	20-100%	2		2		2	
								5		5		5		5		5		5	

Recommended Dimmer & Transformer List								Transformer											
LDR12V6L27MG5D LDR12V6L27WG5D LDR12V6L30MG5D LDR12V6L30WG5D								Manufacturer	TRIDONIC ATCO		Relco		Osram		Nobile		VOSSLOH SCHWABE		PROTEC	
								Type	TMDD 105 A601W		ICE 105 PFS TH		HTM105/230-240		EN-60D		EST105/12.644		PTEL110	
								Load	L		C		R,L,C		C		L,C		C	
	Manufacturer	Type	Load	W/VA	DownTrans	Trailing/Leading	Adjust vol.	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps.	Dimmable range
Dimmer	BUSCH-JAEGER (Busch-Memory-Semiconductor)	6565U	-	2×40 -315	Electronic	Traiing	-	1		1		1	40-100%	1		1		1	
								2		2		2	30-100%	2		2		2	
								5		5		5	25-100%	5		5	30-100%	5	
	BUSCH-JAEGER	6591U-101	-	1.83A, 60-420	Electronic /Magnetic	Trailing	-	1		1		1		1		1		1	
								2		2		2	10-100%	2		2		2	
								5		5		5		5		5	15-90%	5	
	BUSCH-JAEGER	6513U-102	-	40-420	Electronic	Traiing	-	1		1		1	35-100%	1		1-2		1	
								2		2		2	25-100%	2		3	30-100%	2	
								5		5		5	25-100%	5		5	30-100%	5	
	BUSCH-JAEGER	6513-102	-	40-420	Electronic	Trailing	-	1		1		1	35-100%	1		1-2		1	
								2		2		2	25-100%	2		3	30-100%	2	
								5		5		5	25-100%	5		5	30-100%	5	
	JUNG	1252 UDE	R,L,C	50-260	Electronic /Magnetic /All	Trailing	-	1		1		1	25-100%	1		1-2		1	
								2		2		2	25-100%	2		3	30-100%	2	
								5		5		5	25-100%	5		5	30-100%	5	
	JUNG	225 TDE	R,C	20-525	Electronic (Magnetic: No operation)	Traiing	-	1		1		1	20-100%	1		1-2		1	
								2		2		2	25-100%	2		3	30-100%	2	
								5		5		5	25-100%	5		5	30-100%	5	
	GIRA	0307 00/102	R,C	20-525	Electronic (Magnetic: No operation)	Trailing	-	1		1		1	20-100%	1		1		1	
								2		2		2		2		2		2	
								5		5		5		5		5		5	
	Berker	286710	R,C	20-360	Electronic (Magnetic: No operation)	Trailing	-	1		1		1	20-100%	1		1		1	
								2		2		2	20-100%	2		2		2	
								5		5		5	20-100%	5		5	25-100%	5	
	KOPP	80.33	R,L	40-400	Magnetic (Electronic: No operation)	Leading	-	1		1		1		1		1		1	
								2		2		2		2		2		2	
								5		5		5		5		5		5	
	BUSCH-JAEGER	2250U	-	60-600	-	Leading	-	1		1		1		1		1		1	
								2		2		2		2		2		2	
								5		5		5		5		5		5	
	GIRA	0300 00	R	60-400	No (Down Trans: No operation)	Leading	-	1		1		1		1		1		1	
								2		2		2		2		2		2	
								5		5		5		5		5		5	
	GIRA	2262 00	R,L	60-400	Magnetic (Electronic: No operation)	Leading	-	1		1		1		1		1		1	
								2		2		2		2		2		2	
								5		5		5		5		5		5	
	Berker	2873	R,L	20-500	Magnetic (Electronic: No operation)	Leading	-	1		1		1		1		1		1	
								2		2		2		2		2		2	
								5		5		5		5		5		5	
	TCL	L2.0	R,L	630	-	Leading	-	1		1		1		1		1		1	
								2		2		2		2		2		2	
								5		5		5		5		5		5	
	Panasonic	WMS549	R,L	40-400	-	Leading	-	1		1		1		1		1		1	
								2		2		2		2		2		2	
								5		5		5		5		5		5	
	Lonon	NB12TG	R,L	630	-	Leading	-	1		1		1		1		1		1	
								2		2		2		2		2		2	
								5		5		5		5		5		5	
	PEHA	433	R,C	20-315	-	Trailing	-	1		1		1	15-100%	1		1		1	35-100%
								2		2		2	15-100%	2		2		2	30-100%
								5		5		5	10-100%	5		5		5	30-100%
	Varilight	JQP401W	-	10-400	-	Trailing	-	1		1		1		1		1	20-100%	1	
								2		2		2	10-100%	2		2	10-100%	2	
								5		5		5		5		5	10-100%	5	
	MK	52471SL	-	60-500	Only use Leading type	Leading	-	1		1		1		1		1		1	
								2		2		2	10-100%	2		2	10-100%	2	
								5		5		5		5		5		5	
	Hamilton	LK400/2	-	40-400	Low voltage is OK	Leading	-	1		1		1		1		1		1	
								2		2		2	10-100%	2		2	10-100%	2	
								5		5		5		5		5	15-100%	5	
	Click	MD9042	-	60-400	-	Leading	-	1		1		1		1		1	10-100%	1	
								2		2		2	10-100%	2		2	30-100%	2	
								5		5		5		5		5	10-100%	5	
	Aurora	AU-DSP400X	-	60-400	-	Leading	-	1		1		1	20-100%	1		1		1	
								2		2		2	15-100%	2		2	15-100%	2	
								5		5		5	10-100%	5		5	10-100%	5	
	Schneider Electric	GU6012	-	60-400	Only use Leading type	Leading	-	1		1		1	20-100%	1		1		1	
								2		2		2	10-100%	2		2	20-100%	2	
								5		5		5	10-100%	5		5	10-100%	5	

Please Note

- In specific range, there is possibility that flicker happen.
- Please reference the dimmer and Transformer manufacturer's instructions for installation.
- 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.
- This experimental results only checked with 230V. In case of input voltage is very high, there is some possiblity the result may change.
- The absence of a dimmer from this chart does not necessarily imply incompatibility.
- This list is not guarantee performance and safty. Please check in actual situation.
- The lamp may be flashing once when turning on, if the dimmer is already at position zero.
- In general, Leading dimmer is used with Magnetic transformer. Trailing dimmer is used with Electronic transformer.
- Please note that In case of dimming, and depending on the dimmer type, the LED can generate more or less buzzing noise, which is not abnormal.
- Please don't use these lamps with Universal type dimmers. Lamps may be broken or turn off suddenly.
- Load Range(W) is based on incandescent lamp wattage, that quantity of incandescent lamp should become the same quantity of LED lamp when replaced.

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【B to B : Professional LED】

Panasonic GU5.3 45W equivalent Halogen LED Dimmer Compatibility
Recommended Dimmer and Transformer List

--> Please check Important remarks below

X-Y	Lx percentage of dimming range
10-100%	Dimmable range is from 10%-100%
30-100%	Dimmable range is from 30%-100%
40-100%	Dimmable range is from 40%-100%
	Not recommend.The majority of configurations show undesirable dimming behavior
	Configuration not tested
	Lamp is not designed for use with this dimmer type
Name	New added since previous version

Panasonic

20-11-2014

Recommended Dimmer & Transformer List								Transformer									
LDR12V10L27MG5D LDR12V10L27WG5D LDR12V10W40MG5D LDR12V10W40WG5D							Manufacturer	TRIDONIC ATCO		Relco		Osram		Nobile		PROTEC	
							Type	TMDD 105 A601W		ICE 105 PFS TH		HTM105/230-240		EN-60D		PTEL110	
							Load	L		C		R,L,C		C		C	
	Manufacturer	Type	Load	W/VA	DownTrans	Trailing/Leading	Adjust vol.	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps.	Dimmable range
Dimmer	ALTENBURGER	50.13.010	R,L	60-1300W/VA	Magnetic	Leading	Min./Max.	1		1		1		1		1	
								2	10-100%	2		2	10-100%	2		2	
								5		5		5		5		5	
		50.13.110	R,C	15-700W/VA	Electronic	Trailing	Min./Max.	1		1		1		1	30-100%	1	30-100%
								2		2	30-100%	2	10-100%	2	10-100%	2	10-100%
								5		3-5	10-100%	5		5		5	
		50.13.111	R,C	15-1400W/VA	Electronic	Trailing	Min./Max.	1		1		1		1	30-100%	1	
								2		2	30-100%	2	10-100%	2	10-100%	2	
								5		3-5	10-100%	5		5		3-5	10-100%
		50.13.210	R,L	60-2000W/VA	Magnetic	Leading	Min./Max.	1		1		1		1		1	
								2	10-100%	2		2	10-100%	2		2	
								5		5		5		5		5	

Recommended Dimmer & Transformer List								Transformer									
LDR12V10L27MG5D LDR12V10L27WG5D LDR12V10W40MG5D LDR12V10W40WG5D							Manufacturer	TRIDONIC ATCO		Relco		Osram		Nobile		PROTEC	
							Type	TMDD 105 A601W		ICE 105 PFS TH		HTM105/230-240		EN-60D		PTEL110	
							Load	L		C		R,L,C		C		C	
	Manufacturer	Type	Load	W/VA	DownTrans	Trailing/Leading	Adjust vol.	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps.	Dimmable range
Dimmer	BUSCH-JAEGER (Busch-Memory-Semiconductor)	6565U	-	2×40-315	Electronic	Traiing	-	1		1		1	40-100%	1		1	
								2		2		2		2		2	
								5		5		5	40-100%	5		5	
	BUSCH-JAEGER	6591U-101	-	1.83A, 60-420	Electronic /Magnetic	Trailing	-	1		1		1		1		1	
								2		2		2		2		2	
								5		5		5		5		5	
	BUSCH-JAEGER	6513U-102	-	40-420	Electronic	Traiing	-	1		1		1		1		1	
								2		2		2	30-100%	2		2	
								5		5		5		5		5	
	BUSCH-JAEGER	6513-102	-	40-420	Electronic	Trailing	-	1		1		1		1		1	
								2		2		2		2		2	
								5		5		5		5		5	
	JUNG	1252 UDE	R,L,C	50-260	Electronic /Magnetic /All	Trailing	-	1		1		1		1		1	
								2		2		2	30-100%	2		2	
								5		5		5		5		5	
	JUNG	225 TDE	R,C	20-525	Electronic (Magnetic: No operation)	Traiing	-	1		1		1		1		1	
								2		2		2	30-100%	2		2	
								5		5		5		5		5	
	GIRA	0307 00/102	R,C	20-525	Electronic (Magnetic: No operation)	Trailing	-	1		1		1		1		1	
								2		2		2	30-100%	2		2	
								5		5		5		5		5	
	Berker	286710	R,C	20-360	Electronic (Magnetic: No operation)	Trailing	-	1		1		1		1		1	
								2		2		2	30-100%	2		2	
								5		5		5		5		5	
	KOPP	80.33	R,L	40-400	Magnetic (Electronic: No operation)	Leading	-	1		1		1	30-100%	1		1	
								2		2		2		2		2	
								5		5		5	10-100%	5		5	
	BUSCH-JAEGER	2250U	-	60-600	-	Leading	-	1		1		1	10-100%	1		1	
								2		2		2		2		2	
								5		5		5		5		5	
	GIRA	0300 00	R	60-400	No (Down Trans: No operation)	Leading	-	1		1		1		1		1	
								2		2		2	10-100%	2		2	
								5		5		5		5		5	
	GIRA	2262 00	R,L	60-400	Magnetic (Electronic: No operation)	Leading	-	1		1		1		1		1	
								2		2		2	10-100%	2		2	
								5		5		5		5		5	
	Berker	2873	R,L	20-500	Magnetic (Electronic: No operation)	Leading	-	1		1		1		1		1	
								2		2		2		2		2	
								5		5		5		5		5	
	TCL	L2.0	R,L	630	-	Leading	-	1		1		1		1		1	
								2		2		2	10-100%	2		2	
								5		5		5		5		5	
	Panasonic	WMS549	R,L	40-400	-	Leading	-	1		1		1		1		1	
								2		2		2	10-100%	2		2	
								5		5		5		5		5	
	Lonon	NB12TG	R,L	630	-	Leading	-	1		1		1		1		1	
								2		2		2		2		2	
								5		5		5		5		5	
	PEHA	433	R,C	20-315	-	Trailing	-	1		1		1		1		1	
								2		2		2	10-100%	2		2	
								5		5		5		5		5	
	Varilight	JQP401W	-	10-400	-	Trailing	-	1		1		1		1		1	
								2		2		2	10-100%	2		2	
								5		5		5		5		5	
	MK	52471SL	-	60-500	Only use Leading type	Leading	-	1		1		1		1		1	
								2		2		2	10-100%	2		2	
								5		5		5		5		5	
	Hamilton	LK400/2	-	40-400	Low voltage is OK	Leading	-	1		1		1		1		1	
								2		2		2	10-100%	2		2	
								5		5		5		5		5	
	Click	MD9042	-	60-400	-	Leading	-	1		1		1	10-100%	1		1	
								2		2		2	30-100%	2		2	
								5		5		5	10-100%	5		5	
	Aurora	AU-DSP400X	-	60-400	-	Leading	-	1		1		1	10-100%	1		1	
								2		2		2	10-100%	2		2	
								5		5		5	15-100%	5		5	
	Schneider Electric	GU6012	-	60-400	Only use Leading type	Leading	-	1		1		1		1		1	
								2		2		2	10-100%	2		2	
								5		5		5		5		5	

Please Note

- In specific range, there is possibility that flicker happen.
- Please reference the dimmer and Transformer manufacturer's instructions for installation.
- 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.
- This experimental results only checked with 230V. In case of input voltage is very high, there is some possiblity the result may change.
- The absence of a dimmer from this chart does not necessarily imply incompatibility.
- This list is not guarantee performance and safty. Please check in actual situation.
- The lamp may be flashing once when turning on, if the dimmer is already at position zero.
- In general, Leading dimmer is used with Magnetic transformer. Trailing dimmer is used with Electronic transformer.
- Please note that In case of dimming, and depending on the dimmer type, the LED can generate more or less buzzing noise, which is not abnormal.
- Please don't use these lamps with Universal type dimmers. Lamps may be broken or turn off suddenly.
- Load Range(W) is based on incandescent lamp wattage, that quantity of incandescent lamp should become the same quantity of LED lamp when replaced.

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【B to B : Professional LED】

Panasonic 230V LED Dimmer Compatibility – recommended dimmer list

--> Please check Important remarks below

x-y	Dimmable, with x to y lamps
Green	Dimming range is from 10%-100% or 20%-100%
Yellow	Dimming range is from 30%-100%
Pink	Dimming range is from 40%-100%
	Not recommend.The majority of configurations show undesirable dimming behavior
	Configuration not tested
	Lamp is not designed for use with this dimmer type
Name	New added since previous version

Panasonic

21-01-2015

Panasonic				LED Candle LDAHV4L27CE14D	LED Candle LDAHV5L27CE14DE	LED Candle/PingPong LDAHV5L27CGE14DE LDGHV5L27CGE14DE	LED Clear LDAHV8L27CGDE*	LED Reflector LDRHV7L27MG10D LDRHV7L27WG10D	LED Reflector LDRHV7L27MG10D* LDRHV7L27WG10D LDRHV7W40MG10D LDRHV7W40WG10D (2013 Refresh model)
Brand	Model	Load Range(W)	Edge Type	E14	E14	E14	E27	GU10	GU10
Altenburger	50.13.110	15-700	Trailing	1-46	1-28	1-23	1-14	1-14	1-14
Altenburger	50.13.111	15-1400	Trailing	1-46	1-56	1-46	1-28	1-28	1-28
Altenburger	50.13.010	60-1300	Leading	1-43		1-43	1-26	1-26	
Altenburger	50.13.210	60-2000	Leading	1-30		1-30	1-5	1-30	
Berker	286710	20-360	Trailing		1-14	1-12	1-7	1-7	1-7
Berker	2873	20-500	Leading			1-12	1-6	1-10	
CLIPSAL	32V500 Series	500VA	Leading			1-2	1-2		
GIRA	0300 00/101	60-400	Leading	1-5			1-3	1-5	
GIRA	0302 00/101	60-600	Leading			1-3	1-3	1-3	
GIRA	0305 00/104	50-420	Universal						
GIRA	0307 00/102	20-525	Trailing	1-35	1-21	1-17	1-10	1-10	1-10
GIRA	1176 00/103	50-420	Universal						
GIRA	2262 00/101	20-500	Leading	1-13		1-13	1-8	1-10	
BUSCH JAEGER	2250U	60-600	Leading			1-8	1-5	1-8	
BUSCH JAEGER	6513-102	40-420	Trailing	1-28		1-14	1-8	1-8	
BUSCH JAEGER	6513U-102	40-420	Trailing			1-14	1-8	1-8	
BUSCH JAEGER	6523U	2-100	Leading			1-11	1-12	1-11	
BUSCH JAEGER	6524U	2-100	LED Dimmer			1-15	1-12		
BUSCH JAEGER	6565U	80-315	Trailing	1-21		1-10	1-6	1-6	
BUSCH JAEGER	6591U-101	60-420	Universal						
JUNG	225 TDE	20-525	Trailing	1-35	1-21	1-17	1-10	1-10	1-10
JUNG	1252 UDE	50-260	Trailing	1-17		1-9	1-5	1-5	
KOPP	80.33	40-400	Leading	1-10		1-10	1-8	1-8	
KOPP	8077.0208.0	20-275	Trailing					1-5	
Lonon	NB12TG	630	Leading			1	1		
Panasonic	WMS549	40-400	Leading			1-2	1-2	1-2	
PEHA	431	6-120	LED Dimmer			1-14	1-12		
PEHA	433	20-315	Trailing		1-12	1-10	1-6		1-6
PEHA	435	60-600	Leading			1-20	1-12		
TCL(Legrand)	L2.0	630	Leading	1-2		1-2	1-2	1-2	
Wickes	Harrow HA1 2QB	60-400	Leading				1-3	1-3	
Varilight	JQP401W	10-400	Trailing			1-13	1-8		1-8
MK	52471SL	60-500	Leading						
Hamilton	LK400/2	40-400	Leading			1-10	1-8		
Click	MD9042	60-400	Leading			1-4	1-4		
Aurora	AU-DSP400X	60-400	Leading			1-3	1-3		

Please Note

- **In specific range, there is possibility that flicker happen.**
- **Please reference the dimmer manufacturer's instructions for installation.**
- **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.**
- **This experimental results only checked with 230V and one lamp operation. In case of input voltage is very high, there is some possiblity the result may change.**
- **The absence of a dimmer from this chart does not necessarily imply incompatibility.**
- **This list is not guarantee performance and safty. Please check in actual situation.**
- **The lamp may be flashing once when turning on, if the dimmer is already at position zero.**
- **The lamp may become lightly bright, if the Semiconductor Switch is off.**
- **Please note that In case of dimming, and depending on the dimmer type, the LED can generate more or less buzzing noise, which is not abnormal.**
- **Please don't use these lamps with Universal type dimmers. Lamps may be broken or turn off suddenly.**
- **Load Range(W) is based on incandescent lamp wattage, that quantity of incandescent lamp should become the same quantity of LED lamp when replaced.**

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【B to C : Home Consumer LED】

Panasonic GU5.3 12V Halogen LED Non-Dimmer Transformer Compatibility

Recommended Transformer List —> Please check Important remarks below

	: No Flicker 1～5 lamp
	: No flicker with X-Y lamp(X,Y:number of lamps)
	: No Compatibility
–	: Configuration not tested

Panasonic

25-03-2015

No.	Company	Model #	LDR12V4L27WG5EP (4W type)	LDR12V6L27WG5EP (6W type)	NEW LDR12V6L27WG52EP (6W type)	LDR12V10L27WG5EP (8W type)
1	ABB	ETR 50-230/12KF	×	×	×	1
2		ETR 70-230/12KF	×	×	×	1-2
3		ETR 105-230/12KF	×	×	×	1-2
4	ALS	TRE-105	×	×	×	–
5	Art.	125/105SA	–	–	1-3	–
6	GENERAL LIGHTING	1200-0	–	–	–	–
7	GIRA	0366 00	1-2	1-2	1-2	–
8		0367 00 SNT40	1-2	1	1	1
8		0375 00 /101	–	–	3-4	1-4
9	JUNG	SNT 40	1-2	1	1	–
10		SNT 70 Q	1-3	1-2	2	–
11		SNT 105 F	1-5	1-3	1-2	–
12	MOLTO LUCE	T 105	×	×	–	1-2
13	NATIONAL ELECTRIC		–	–	–	1-2
14	nobile	EN-60D	1-3	1	1	2
15		EN-110D	1-5	1-3	1-3	–
16		EN-150D	1-5	1-4	1-4	–
17		EN-200D	×	×	1-4	–
18		EN 250D	×	×	×	–
19	OSRAM	ET-A 60/220-240	×	×	1	1
		ET-PARROT 70W/220-240 I	×	×	1-2	1-2
		ET-PARROT 105W/220-240 I	×	×	1-3	1-2
20		ET-PARROT 150W/220-240 I	–	–	×	–
		ET-REDBACK 60VA/230-240	–	–	1	–
23		HTL 105/230-240	3-5	3	2-3	1-2
24		HTL 225/230-240	×	×	×	–
25		HTM 70/230-240	1	×	1-2	1-2
26		HTM 105/230-240	1-5	1-3	1-3	1-2
27		HTM 150/230-240	×	×	×	1-3
28		HTN 75/230-240	×	×	1-2	1-2
29	Plilips	ET-E 60/220-240	2-3	2	1	1
30		Primaline70 230-240	×	×	1-2	2
31		Primaline150 230-240	1-5	1-4	1-4	1-3
32	PROTEC	PTEL E 35	1	1	1	×
33		PTEL R 60	2-3	1	1	1
34		PTEL 70K	1-3	1-2	1-2	–
35		PTEL 110	1-5	1-3	1-3	2
36		PTEL SK 110	×	×	1-3	–
37	Relco	RN1604	×	×	1-3	×
38		RN1650	2-3	1-2	2	2
39	VOSSLOH SCHWABE	EST35/12.650	1	1	×	1
40		EST60/12.388	×	×	1	×
41		EST60/12.633	×	×	×	1
42		EST60/12.635	×	×	1	1
43		EST70/12.380	×	×	1-2	1
44		EST105/12.381	×	×	1-3	1-2
45		EST105/12.644	×	×	1-3	1-2
46		EST150/12.622	×	×	1-4	1-3

- In specific range, there is possibility that flicker happen.
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- This experimental results only checked with 230V.
  In case of input voltage is very high, there is some possiblity the result may change.
- This list is not guarantee performance and safty. Please check in actual situation.
- Load Range(W) is based on incandescent lamp wattage, that quantity of incandescent lamp should become the same quantity of LED lamp when replaced.

【B to C : Home Consumer LED】

Panasonic 230V LED Dimmer Compatibility – recommended dimmer list

--> Please check Important remarks below

x-y	Dimmable, with x to y lamps
10-100%	Dimming range is from 10%-100% or 20%-100%
30-100%	Dimmable range is from 30%-100%
40-100%	Dimmable range is from 40%-100%
	Not recommend.The majority of configurations show undesirable dimming behavior
	Configuration not tested
	Lamp is not designed for use with this dimmer type
Name	New added since previous version

Panasonic

21-01-2015

Panasonic				LED Candle/PingPong LDAHV5L27CGE14DEP LDGHV5L27CGE14DEP	LED Reflector LDRHV7L27WG10DEP (2013 Refresh model)
Brand	Model	Load Range(W)	Edge Type	E14	GU10
Altenburger	50.13.110	15-700	Trailing	1-23	1-14
Altenburger	50.13.111	15-1400	Trailing	1-46	1-28
Altenburger	50.13.010	60-1300	Leading	1-43	
Altenburger	50.13.210	60-2000	Leading	1-30	
Berker	286710	20-360	Trailing	1-12	1-7
Berker	2873	20-500	Leading	1-12	
CLIPSAL	32V500 Series	500VA	Leading	1-2	
GIRA	0300 00/I01	60-400	Leading		
GIRA	0302 00/I01	60-600	Leading	1-3	
GIRA	0305 00/I04	50-420	Universal		
GIRA	0307 00/I02	20-525	Trailing	1-17	1-10
GIRA	1176 00/I03	50-420	Universal		
GIRA	2262 00/I01	20-500	Leading	1-13	
BUSCH JAEGER	2250U	60-600	Leading	1-8	
BUSCH JAEGER	6513-102	40-420	Trailing	1-14	
BUSCH JAEGER	6513U-102	40-420	Trailing	1-14	
BUSCH JAEGER	6523U	2-100	Leading	1-11	
BUSCH JAEGER	6524U	2-100	LED Dimmer	1-15	
BUSCH JAEGER	6565U	80-315	Trailing	1-10	
BUSCH JAEGER	6591U-101	60-420	Universal		
JUNG	225 TDE	20-525	Trailing	1-17	1-10
JUNG	1252 UDE	50-260	Trailing	1-9	
KOPP	80.33	40-400	Leading	1-10	
KOPP	8077.0208.0	20-275	Trailing		
Lonon	NB12TG	630	Leading	1	
Panasonic	WMS549	40-400	Leading	1-2	
PEHA	431	6-120	LED Dimmer	1-14	
PEHA	433	20-315	Trailing	1-10	1-6
PEHA	435	60-600	Leading	1-20	
TCL(Legrand)	L2.0	630	Leading	1-2	
Wickes	Harrow HA1 2QB	60-400	Leading		
Varilight	JQP401W	10-400	Trailing	1-13	1-8
MK	52471SL	60-500	Leading		
Hamilton	LK400/2	40-400	Leading	1-10	
Click	MD9042	60-400	Leading	1-4	
Aurora	AU-DSP400X	60-400	Leading	1-3	

Please Note

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- **The lamp may become lightly bright, if the Semiconductor Switch is off.**
- **Please note that In case of dimming, and depending on the dimmer type, the LED can generate more or less buzzing noise, which is not abnormal.**
- **Please don't use these lamps with Universal type dimmers. Lamps may be broken or turn off suddenly.**
- **Load Range(W) is based on incandescent lamp wattage, that quantity of incandescent lamp should become the same quantity of LED lamp when replaced.**

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