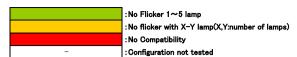
# [B to B: Professional LED]

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



28-02-2014

# **Panasonic**

20-0	12-2014				31110101111
No.	Company	Model #	LDR12V4L27MG5 LDR12V4U27WG5 LDR12V4W40MG5 LDR12V4W40WG5	LDR12V6L27MG5D LDR12V6L27WG5D LDR12V6W40MG5D LDR12V6W40WG5D	LDR12V10L27MG5D LDR12V10U27WG5D LDR12V10W40MG5D LDR12V10W40WG5D
<b>⊢.</b>			(4W type)	(6W type)	(8W type)
1	400	ETR 50-230/12KF	×	×	1-5
2	ABB	ETR 70-230/12KF	X	×	1–5
3	41.0	ETR 105-230/12KF	X	×	1-5 -
4	ALS	TRE-105	Х	×	
5	Art.	125/105SA	-	-	-
6	GENERAL LIGHTING	1200-0	-	-	-
7	GIRA	0366 00	1-5	1-5	-
8		0367 00 SNT40	1-5	1-5	1–5
9	11717	SNT 40	1-5	1-5	-
10	JUNG	SNT 70 Q	1-5	1–5	-
11		SNT 105 F	1–5	1–5	-
12	MOLTO LUCE	T 105	×	×	1-5
13	NATIONAL ELECTRIC		-	-	1-5
14		EN-60D	1–5	1–5	2-5
15		EN-110D	1–5	1–5	-
16	nobile	EN-150D	1–5	1–5	-
17		EN-200D	×	×	-
18		EN 250D	×	×	-
19		ET-A 60/220-240	×	×	1-5
20		ET PARROT 150W/220-240	×	×	1-5
21		ET 70VA/220-240	×	×	1-5
22		ET 105VA/220-240	×	×	1-5
23	OSRAM	HTL 105/230-240	3-5	3–5	1-5
24	USKAW	HTL 225/230-240	×	×	-
25		HTM 70/230-240	1	×	1–5
26		HTM 105/230-240	1–5	1–5	1–5
27		HTM 150/230-240	×	×	1-5
28		HTN 75/230-240	×	×	1-5
29		ET-E 60/220-240	2-5	2-5	1-5
30	Plilips	Primaline70 230-240	×	×	2-5
31		Primaline150 230-240	1-5	1–5	1-5
32		PTEL E 35	1-5	1-5	2-5
33		PTEL R 60	2-5	1–5	1-5
34	PROTEC	PTEL 70K	1–5	1–5	-
35		PTEL 110	1–5	1–5	2-5
36		PTEL SK 110	×	×	-
37		RN1604	×	×	5
38	Relco	RN1650	2-5	1–5	2-5
39		EST35/12.650	1-5	1-5	1-5
40		EST60/12.388	X	×	2-5
41		EST60/12.633	×	×	1-5
42		EST60/12.635	×	×	1-5
43	VOSSLOH SCHWABE	EST70/12.380	Ŷ	· ·	1-5 1-5
44			· ·	×	1-5 1-5
45		EST105/12.381	`^ .v	4-5	1-5 1-5
46		EST105/12.644 EST150/12.622	× ×	4-5 ×	1-5 1-5
40		LO1100/12.022		^	1-0

- 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.

### [B to B : Professional LED]

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

Lx percentage of dimming range

\$\tilde{\Omega}\$ Dimmable range is from 10%-100%

\$\tilde{\Omega}\$ Dimmable range is from 30%-100%

\$\tilde{\Omega}\$ Dimmable range is from 30%-100%

\$\tilde{\Omega}\$ ON 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

New added since previous version



# **Panasonic**

28-02-2	2014 nended Dimmer &	T1	1-4										T	former					
Recomm	ierided Dimmer &	Transformer L	JISL										Trans	Iormer					
		LDR12V					Manufacturer	Relco		Relco		Osram		Nobile		VOSSI	OH SCHWABE	PROTE	C C
		LDR12V LDR12V					Туре	S 50 D	Γ-C (Magnetic)	ICE 105	PFS TH	HTM10	5/230-240	EN-600	)	EST10	5/12.644	PTEL1	10
		LDR12V					Load	L		С	С		R,L,C		С		L,C		
	Manufacturer	Туре	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 rang
		50.13.010	R.L	60- 1300W	Magnetic	Leading	Min./Max.	1 2	20-100%	1 2		1 2		1 2		1 2		1 2	
		00.10.010		/VA	magnette	Louding	mint, max.	5	20 1000	5		5		5		5		5	
				15-				- 1		1		- 1		- 1		1-2		- 1	
		50.13.110	R,C	700W /VA	Electronic	Trailing	Min./Max.	2 5		2 5	20-100% 10-100%	2	20-100%	2	20-100%	3 5	10-100% 30-100%	2 5	
D:				15-				1		1	10 100%	1		1		1-2	30 100%	1	
Dimmer	ALTENBURGER	50.13.111	R,C	1400W	Electronic	Trailing	Min./Max.	2		2		2	20-100%	2	20-100%	3	10-100%	2	
				/VA				5		5		5		5		5	30-100%	3-5	
				60-				1	30-100%	1		1		1		1		1	
		50.13.210	R,L	2000W	Magnetic	Leading	Min./Max.	2	30-100%	2		2		2		2		2	
				/VA				- 5	20-100%	5		5		5		5		5	
		00 40 004		60-	F1			- 1		- 1		1	00.4000	- 1		- 1		1	
		80.13.064	R,C	1400W	Electronic	I railing	Min./Max.	2		2		2	20-100%	2		2		2	
				/VA				5		5		5		5		5		5	

Recomm	commended Dimmer & Transformer List  LDR12V6L27MG5D												Trans	former					
							Manufacturer	TRIDON	NIC ATCO	Relco		Osram		Nobile		VOSSL	OH SCHWABE	PROTE	3
		LDR12V LDR12V	6L30	MG5D	)		Туре	TMDD 1	105 A601W	ICE 105	PFS TH	HTM10	05/230-240	EN-60E	)	EST105	5/12.644	PTEL11	0
		LDR12V			)		Load	L		С		* *		С		L,C		С	
	Manufacturer BUSCH-JAEGER	Туре	Load		DownTrans	Trailing/Leading	Adjust vol.	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps 1	. Dimmable range 40-100%	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps.	Dimmable range
	(Busch-Memory- Semiconductor)	6565U	-	2 × 40 -315	Electronic	Traiing	-	2		2		2	30-100% 25-100%	2		2	30-100%	2	
	BUSCH-JAEGER	6591U-101	-	1.83A, 60-420	Electronic /Magnetic	Trailing	-	1 2 5		1 2 5		1 2 5	10-100%	1 2 5		1 2 5	15-90%	1 2 5	
	BUSCH-JAEGER	6513U-102	-	40-420	Electronic	Traiing	-	1 2 5		1 2 5		1 2 5	35-100% 25-100% 25-100%	1 2 5		1-2 3 5	30-100% 30-100%	1 2 5	
	BUSCH-JAEGER	6513-102	-	40-420	Electronic	Trailing	-	1 2 5		1 2 5		1 2 5	35-100% 25-100% 25-100%	1 2 5		1-2 3 5	30-100% 30-100%	1 2 5	
	JUNG	1252 UDE	R,L,C	50-260	/Magnetic /All	Trailing	-	1 2 5		1 2 5		1 2 5	25-100% 25-100% 25-100%	1 2 5		1-2 3 5	30-100% 30-100%	1 2 5	
	JUNG	225 TDE	R,C	20-525	Electronic (Magnetic: No operation)	Traiing	-	1 2 5		1 2 5		1 2 5	20-100% 25-100% 25-100%	1 2 5		1-2 3 5	30-100% 30-100%	1 2 5	
	GIRA	0307 00/102	R,C	20-525	Electronic (Magnetic: No operation)	Trailing	-	1 2 5		1 2 5		1 2 5	20-100%	1 2 5		1 2 5		1 2 5	
	Berker	286710	R,C	20-360	operation)	Trailing	-	1 2 5		1 2 5		1 2 5	20-100% 20-100% 20-100%	1 2 5		1 2 5	25-100%	1 2 5	
	корр	80.33	R,L	40-400	Magnetic (Electronic: No operation)	Leading	-	1 2 5		1 2 5		1 2 5		1 2 5		1 2 5		1 2 5	
	BUSCH-JAEGER	2250U	-	60-600	-	Leading	-	1 2 5		1 2 5		1 2 5		1 2 5		1 2 5		1 2 5	
	GIRA	0300 00	R	60-400	No operation)	Leading	-	1 2 5		1 2 5		1 2 5		1 2 5		1 2 5		1 2 5	
Dimmer	GIRA	2262 00	R,L	60-400	Magnetic (Electronic: No operation)	Leading	-	1 2 5		1 2 5		1 2 5		1 2 5		1 2 5		1 2 5	
	Berker	2873	R,L	20-500	Magnetic (Electronic: No operation)	Leading	-	1 2 5		1 2 5		1 2 5		1 2 5		1 2 5		1 2 5	
	TCL	L2.0	R,L	630	-	Leading	-	1 2 5		1 2 5		1 2 5		1 2 5		1 2 5		1 2 5	
	Panasonic	WMS549	R,L	40-400	-	Leading	-	1 2 5		1 2 5		1 2 5		1 2 5		1 2 5		1 2 5	
	Lonon	NB12TG	R,L	630	-	Leading	-	2 5		2 5		2 5	15-100%	2 5		2 5		2 5 1	35-100%
	PEHA	433	R,C	20-315	-	Trailing	-	5		2 5		2 5	15-100% 15-100% 10-100%	2 5		2 5	20-100%	2 5	30-100% 30-100%
	Varilight	JQP401W	-	10-400	- Only use	Trailing	-	2 5		2 5		2 5	10-100%	2 5		2 5	10-100% 10-100%	2 5	
	мк	52471SL	-	60-500	Leading type Low	Leading	-	2 5		2 5		2 5	10-100%	2 5		2 5	10-100%	2 5	
	Hamilton	LK400/2	-	40-400	voltage is OK	Leading	-	5		2 5		2 5	10-100%	2 5		2 5	10-100% 15-100% 10-100%	5	
		MD9042	-	60-400	-	Leading	-	5		2 5		2 5	10-100%	2 5		2 5	30-100% 10-100%	2 5	
	Aurora	AU-DSP400X	-	60-400	- Only use	Leading	-	2 5		2 5		2 5	15-100% 10-100% 20-100%	2 5		2 5	15-100% 10-100%	2 5	
	Schneider Electric	GU6012	-	60-400	Leading type	Leading	-	2		2		2	10-100% 10-100%	2		2	20-100% 10-100%	2	

### [B to B : Professional LED]

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

Lx percentage of dimming range

10 Dimmable range is from 10%-100%

10 Dimmable range is from 30%-100%

10 Dimmable range is from 40%-100%

10 Dimmable range is from 40%-100%

10 The recommand of the majority of configurations show undesirable dimming behavior

Configuration not tested

Lamp is not designed for use with this dimmer type

New added since previous version





Nam 28-0	Lamp is not des New added since 2-2014			is dimmer	type			-			TT.				Pan	as	onic
Reco	mmended Dimmer &	Transformer	List									Т	ransformer				
		LDR12V					Manufacturer	TRIDO	NIC ATCO	Relco		Osram		Nobile		PROTE	С
		LDR12V LDR12V					Туре	TMDD	105 A601W	ICE 10	PFS TH	HTM105	5/230-240	EN-600	)	PTEL11	0
		LDR12V	10W4	10WG5E	)		Load	L		С		R,L,C		С		С	
	Manufacturer	Туре	Load	W/VA	DownTrans	Trailing/Leading	Adjust vol.	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps.	Dimmable range	Lamps.	Dimmable range
		50.13.010	R,L	60- 1300W /VA	Magnetic	Leading	Min./Max.	1 2 5	10-100%	1 2 5		2 5	10-100%	1 2 5		1 2 5	
Dim	ner ALTENBURGER	50.13.110	R,C	15- 700W /VA	Electronic	Trailing	Min./Max.	1 2 5		1 2 3-5	30-100% 10-100%	1 2 5	10-100%	1 2 5	30-100% 10-100%	1 2 5	30-100% 10-100%
	ALTENBURGER	50.13.111	R,C	15- 1400W /VA	Electronic	Trailing	Min./Max.	1 2 5		1 2 3-5	30-100% 10-100%	1 2 5	10-100%	1 2 5	30-100% 10-100%	1 2 3-5	10-100%
		50.13.210	R,L	60- 2000W /VA	Magnetic	Leading	Min./Max.	1 2 5	10-100%	1 2 5		1 2 5	10-100%	1 2 5		1 2 5	

Recommended Dimmer & Transformer List								Т						Transformer					
		LDR12V1	10L2				Manufacturer	+	RIDONIC ATCO	Rel			Osran	ı	Not			PROTEC	
		LDR12V1 LDR12V1	0W4	OMG5E	)		Туре	TI	MDD 105 A601W			HTM105/230-240		+	EN-60D		PTEL110		
L	Manufacturer			W/VA		Trailing/Leading	Load Adjust val	L	mno Dimmoblo	C Lamps. Dimmable range		R,L,C Lamps. Dimmable range			C Lamps. Dimmable range		C Lamps. Dimmable range		
	BUSCH-JAEGER		Load	2×40			Adjust vol.	LE	amps. Dimmable range		1	Dimmable range	1	40-100%		1	Dimmable range	1	nmable range
	(Busch-Memory- Semiconductor)	6565U	-	-315	Electronic	Traiing	-	H	5		5		5	40-100%		5		5	
	BUSCH-JAEGER	6591U-101	-	1.83A, 60-420	Electronic /Magnetic	Trailing	-		1 2 5		1 2 5		1 2 5			1 2 5		1 2 5	
	BUSCH-JAEGER	6513U-102	-	40-420	Electronic	Traiing	-	E	1 2 5		1 2 5		1 2 5	30-100%		1 2 5		1 2 5	
	BUSCH-JAEGER	6513-102	-	40-420	Electronic	Trailing	-	E	1 2		1		1 2			2		1 2	
	JUNG	1252 UDE	R,L,C	50-260	Electronic /Magnetic	Trailing	-	E	5 1 2		5 1 2		5 1 2	30-100%		5 1 2		5 1 2	
	JUNG	225 TDE	R,C	20-525	/All Electronic (Magnetic: No operation)	Traiing	-	Ė	5 1 2		1 2		5 1 2	30-100%	Н	1 2		5 1 2	
	GIRA	0307 00/102	R,C	20-525	Electronic (Magnetic: No	Trailing	-	Ė	1 2		5 1 2		5 1 2 5	30-100%		5 1 2 5		5 1 2 5	
	Berker	286710	R,C	20-360	Electronic (Magnetic: No	Trailing	-	E	5 1 2 5		5 1 2 5		1 2 5	30-100%		1 2 5		1 2 5	
	корр	80.33	R,L	40-400	Magnetic (Electronic: No operation)	Leading	-	E	1 2		2		1 2	30-100% 10-100%		2		2	
	BUSCH-JAEGER	2250U	-	60-600	-	Leading	-	E	5 1 2 5		5 1 2 5		5 1 2 5	10-100%	Н	5 1 2 5		5 1 2 5	
	GIRA	0300 00	R	60-400	No (Down Trans: No operation)	Leading	-	F	1 2 5		1 2 5		1 2 5	10-100%		1 2 5		1 2 5	
Dimmer	GIRA	2262 00	R,L	60-400	Magnetic (Electronic: No operation)	Leading	-	E	1 2 5		1 2 5		1 2 5	10-100%	Е	1 2 5		1 2 5	
	Berker	2873	R,L	20-500	Magnetic (Electronic: No operation)	Leading	-	E	1 2 5		1 2 5		1 2 5			1 2 5		1 2 5	
	TCL	L2.0	R,L	630	-	Leading	-	F	1 2 5		1 2 5		1 2 5	10-100%		2		1 2 5	
	Panasonic	WMS549	R,L	40-400	-	Leading	-		1 2 5		1 2 5		1 2 5	10-100%		1 2 5		1 2 5	
	Lonon	NB12TG	R,L	630	-	Leading	-		1 2 5		1 2 5		1 2 5		F	2		1 2 5	
	PEHA	433	R,C	20-315	-	Trailing	-	E	2 5		1 2 5		1 2 5	10-100%		1 2 5		1 2 5	
	Varilight	JQP401W	-	10-400	-	Trailing	-	E	1 2 5		1 2 5		1 2 5	10-100%		1 2 5		1 2 5	
	мк	52471SL	-	60-500	Only use Leading type	Leading	-	E	1 2 5	-	1 2 5		1 2 5	10-100%	F	1 2 5		1 2 5	
	Hamilton	LK400/2	-	40-400	Low voltage is OK	Leading	-		2 5		1 2 5		1 2 5	10-100%	F	2		1 2 5	
	Click	MD9042	-	60-400	-	Leading	-	E	1 2 5		1 2 5		1 2 5	10-100% 30-100% 10-100%		1 2 5		1 2 5	
	Aurora	AU-DSP400X	-	60-400	-	Leading	-	E	1 2 5		1 2 5		1 2 5	10-100% 10-100% 15-100%	Е	2		1 2 5	
	Schneider Electric	GU6012	-	60-400	Only use Leading type	Leading	-		1 2 5		1 2 5		1 2 5	10-100%		2		1 2 5	

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### [B to B : Professional LED]

# Panasonic 230V LED Dimmer Compatibility - recommended dimmer list

Dimmable range is from 10%-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

New added since previous version

# Panasonic

28-02-2014									Hasonic
20 02 2011				LED Candle	LED Candle	LED Candle/PingPong	LED Clear	LED Reflector	LED Reflector
	Panas	sonic		LDAHV4L27CE14D	LDAHV5L27CE14DE	LDAHV5L27CGE14DE LDGHV5L27CGE14DE	LDAHV8L27CGDE*	LDRHV7L27MG10D LDRHV7L27WG10D	LDRHV7L27MG10D* LDRHV7L27WG10D LDRHV7W40MG10D LDRHV7W40WG10D (2013 Refresh model)
				4					
Brand	Model	Load Range(W)	Edge Type	E14	E14	E14	E27	GU10	GU10
Altenburger	50.13.110	15-700	Trailing	10-100%	10-100%	10-100%	10-100%	10-100%	10-100%
Altenburger	50.13.111	15-1400	Trailing	10-100%	30-100%	30-100%	10-100%	30-100%	10-100%
Altenburger	50.13.010	60-1300	Leading	10-100%		10-100%	10-100%	10-100%	
Altenburger	50.13.210	60-2000	Leading	10-100%		10-100%	10-100%	10-100%	
Berker	286710	20-360	Trailing		30-100%	10-100%	10-100%	10-100%	40-100%
Berker	2873	20-500	Leading			30-100%	10-100%	30-100%	
CLIPSAL	32V500 Series	500VA	Leading						
GIRA	0300 00/I01	60-400	Leading	30-100%			30-100%	30-100%	
GIRA	0302 00/I01	60-600	Leading			30-100%	10-100%	10-100%	
GIRA	0305 00/104	50-420	Universal			10-100%	10-100%	10 1000	
GIRA	0307 00/102	20-525	Trailing	30-100%	30-100%	30-100%	10-100%	10-100%	40-100%
GIRA GIRA	1176 00/I03 2262 00/I01	50-420 20-500	Universal Leading	30-100%		10-100%	10-100%	10-100%	
BUSCH JAEGER	2250U	60-600	Leading	30-100%		30-100%	10-100%	30-100%	
BUSCH JAEGER	6513-102	40-420	Trailing	30-100%		10-100%	10-100%	10-100%	
BUSCH JAEGER	6513U-102	40-420	Trailing	30-100%		10-100%	10-100%	10-100%	
BUSCH JAEGER	6523U	2-100	Leading			10-100%	10-100%	10-100%	
BUSCH JAEGER	6524U	2-100	LED Dimmer	+		10-100%	10-100%	10-100%	
BUSCH JAEGER	6565U	80-315	Trailing	10-100%		10-100%	10-100%	10-100%	
BUSCH JAEGER	6591U-101	60-420	Universal	10 100.0		10 100%	10 100%	10 100%	
JUNG	225 TDE	20-525	Trailing	30-100%	30-100%	10-100%	10-100%	10-100%	40-100%
JUNG	1252 UDE	50-260	Trailing	30-100%	55 100/1	10-100%	30-100%	30-100%	10 100%
KOPP	80.33	40-400	Leading	30-100%		30-100%	10-100%	30-100%	
KOPP	8077.0208.0	20-275	Trailing				10-100%	10-100%	
Lonon	NB12TG	630	Leading			10-100%	10-100%		
Panasonic	WMS549	40-400	Leading			30-100%	30-100%	30-100%	
PEHA	431	6-120	LED Dimmer			10-100%			
PEHA	433	20-315	Trailing		30-100%	10-100%	10-100%		30-100%
PEHA	435	60-600	Leading			10-100%	10-100%		
TCL(Legrand)	L2.0	630	Leading	10-100%		10-100%	10-100%	10-100%	
Wickes	Harrow HA1 2QB	60-400	Leading				10-100%	30-100%	
Varilight	JQP401W	10-400	Trailing			10-100%	10-100%		10-100%
MK	52471SL	60-500	Leading						
Hamilton	LK400/2	40-400	Leading			30-100%	20-100%		
Click	MD9042	60-400	Leading			10-100%	10-100%		
Aurora	AU-DSP400X	60-400	Leading	<u> </u>		10-100%	10-100%		

- · 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.

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# [B to C: Home Consumer LED]

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



28-02-2014 Configuration not tested

20 0	02 2014				The state of the s
No.	Company	Model #	LDR12V4L27WG5EP	LDR12V6L27WG5EP	LDR12V10L27WG5EP
			(4W type)	(6W type)	(8W type)
1		ETR 50-230/12KF	×	×	1-5
2	ABB	ETR 70-230/12KF	×	×	1-5
3		ETR 105-230/12KF	×	×	1-5
4	ALS	TRE-105	×	×	-
5	Art.	125/105SA	-	-	-
6	GENERAL LIGHTING	1200-0	-	-	-
7	GIRA	0366 00	1-5	1-5	-
8	GIRA	0367 00 SNT40	1-5	1–5	1-5
9		SNT 40	1-5	1–5	-
10	JUNG	SNT 70 Q	1-5	1–5	-
11		SNT 105 F	1-5	1–5	-
12	MOLTO LUCE	T 105	×	×	1-5
13	NATIONAL ELECTRIC		-	-	1-5
14		EN-60D	1-5	1-5	2-5
15		EN-110D	1-5	1-5	-
16	nobile	EN-150D	1-5	1-5	-
17		EN-200D	×	×	-
18		EN 250D	×	×	_
19		ET-A 60/220-240	×	×	1-5
20		ET PARROT 150W/220-240	×	×	1-5
21		ET 70VA/220-240	×	×	1-5
22		ET 105VA/220-240	×	×	1-5
23		HTL 105/230-240	3-5	3-5	1-5
24	OSRAM	HTL 225/230-240	×	×	_
25		HTM 70/230-240	1	×	1-5
26		HTM 105/230-240	1-5	1–5	1-5
27		HTM 150/230-240	×	×	1-5
28		HTN 75/230-240	×	×	1-5
29		ET-E 60/220-240	2-5	2-5	1-5
30	Plilips	Primaline70 230-240	×	×	2-5
31		Primaline150 230-240	1-5	1–5	1-5
32		PTEL E 35	1-5	1–5	2-5
33		PTEL R 60	2-5	1–5	1-5
34	PROTEC	PTEL 70K	1-5	1–5	_
35		PTEL 110	1-5	1-5	2-5
36		PTEL SK 110	×	×	-
37		RN1604	×	×	5
38	Relco	RN1650	2-5	1-5	2–5
39		EST35/12.650	1-5	1-5	1-5
40		EST60/12.388	X	×	2-5
41		EST60/12.633	×	×	1-5
42		EST60/12.635	× .	×	1-5
43	VOSSLOH SCHWABE	EST70/12.380	× .	×	1-5
44		EST105/12.381	×	×	1-5
45		EST105/12.644	×	4-5	1-5
46		EST150/12.622	×	× ×	1-5
Ţ		20.100/ 12.02E		· ·	

- In specific range, there is possibility that flicker happen.
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- 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.

### [B to C: Home Consumer LED]

### Panasonic 230V LED Dimmer Compatibility - recommended dimmer list

Dimmable range is from 10%-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

New added since previous version



28-02-2014				LED Candle/PingPong	LED Reflector
	Pana	sonic		LDAHV5L27CGE14DEP LDGHV5L27CGE14DEP	LDRHV7L27WG10DEP (2013 Refresh model)
				The state of the s	
Brand	Model	Load Range(W)	Edge Type	E14	GU10
Altenburger	50.13.110	15-700	Trailing	10-100%	10-100%
Altenburger	50.13.111	15-1400	Trailing	30-100%	10-100%
Altenburger	50.13.010	60-1300	Leading	10-100%	
Altenburger	50.13.210	60-2000	Leading	10-100%	
Berker	286710	20-360	Trailing	10-100%	40-100%
Berker	2873	20-500	Leading	30-100%	
CLIPSAL	32V500 Series	500VA	Leading		
GIRA	0300 00/I01	60-400	Leading		
GIRA	0302 00/I01	60-600	Leading	30-100%	
GIRA	0305 00/I04	50-420	Universal	10-100%	
GIRA	0307 00/I02	20-525	Trailing	30-100%	40-100%
GIRA	1176 00/I03	50-420	Universal		
GIRA	2262 00/I01	20-500	Leading	10-100%	
BUSCH JAEGER	2250U	60-600	Leading	30-100%	
BUSCH JAEGER	6513-102	40-420	Trailing	10-100%	
BUSCH JAEGER	6513U-102	40-420	Trailing	10-100%	
BUSCH JAEGER	6523U	2-100	Leading	10-100%	
BUSCH JAEGER	6524U	2-100	LED Dimmer	10-100%	
BUSCH JAEGER	6565U	80-315	Trailing	10-100%	
BUSCH JAEGER	6591U-101	60-420	Universal		
JUNG	225 TDE	20-525	Trailing	10-100%	40-100%
JUNG	1252 UDE	50-260	Trailing	10-100%	
KOPP	80.33	40-400	Leading	30-100%	
KOPP	8077.0208.0	20-275	Trailing		
Lonon	NB12TG	630	Leading	10-100%	
Panasonic	WMS549	40-400	Leading	30-100%	
PEHA	431	6-120	LED Dimmer	10-100%	
PEHA	433	20-315	Trailing	10-100%	30-100%
PEHA	435	60-600	Leading	10-100%	
TCL(Legrand)	L2.0	630	Leading	10-100%	
Wickes	Harrow HA1 2QB	60-400	Leading		
Varilight	JQP401W	10-400	Trailing	10-100%	10-100%
MK	52471SL	60-500	Leading		
Hamilton	LK400/2	40-400	Leading	30-100%	
Click	MD9042	60-400	Leading	10-100%	
Aurora	AU-DSP400X	60-400	Leading	10-100%	

- In specific range, there is possibility that flicker happen.
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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.

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