

Report.	Emergency Solution	Customer.	Mr Resistor		
Engineer.	Amila Morawatte	Test Date.	20/08/2026		
Lamp or Fitting.	ledunited 5W GU10 Reality Dimmable Puppy	FIN.	2080/J3	Job Number	25844

Compatibility:

Emergency module	Compatibility result	Connection	Emergency Output Factor (%) (EOFp)
TLP/1S	COMPATIBLE	To 240V Terminals	45
TLP/2	COMPATIBLE	To 240V Terminals	84.1
TLP/2S	COMPATIBLE	To 240V Terminals	100

EMERGENCY SOLUTION:

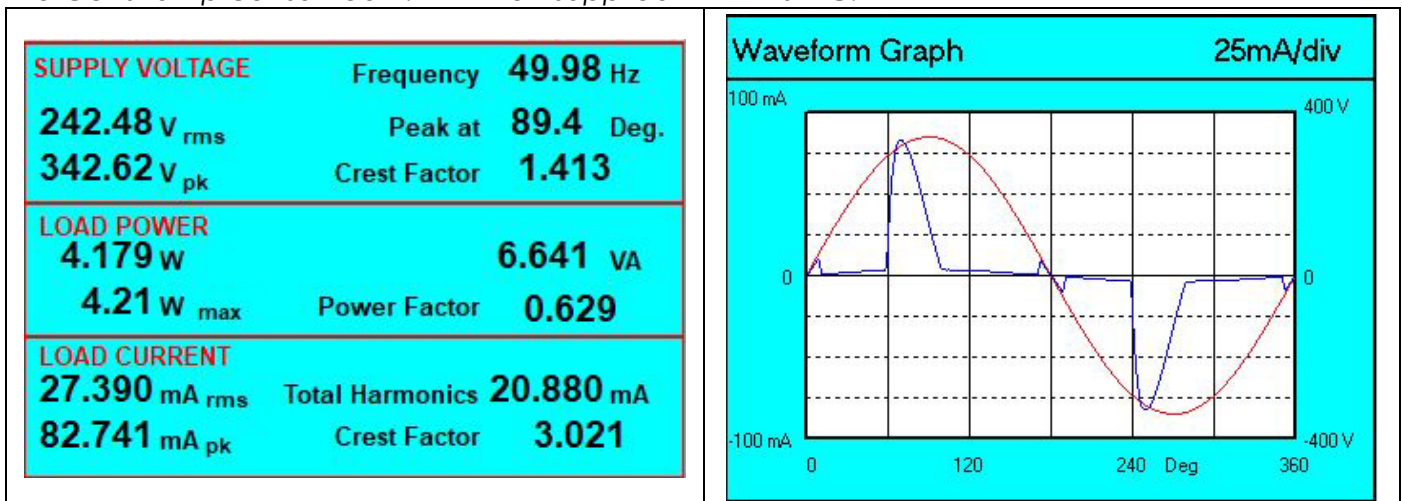
<u>Mains:</u>						
Mains Power: (W)	5					
<u>Emergency:</u>	<u>TLP/1S</u> <u>Nominal</u>	<u>TLP/1S</u> <u>Low</u>	<u>TLP/2</u> <u>Nominal</u>	<u>TLP/2</u> <u>Low</u>	<u>TLP/2S</u> <u>Nominal</u>	<u>TLP/2S</u> <u>Low</u>
Battery Voltage: (V)	3.2	2.7	6.4	5.5	6.4	5.5
Battery Current: (A)	1086	1139	848	900	1080	1095
Battery Power: (W)	3.5	3.1	5.4	4.95	6.9	6
LED Voltage: (V)	173.2	165.9	233.6	203.6	281.6	248.8
LED Current: (A)	13	11	18	18	19	19
LED Power: (W)	2.3	1.8	4.2	3.7	5.4	4.7
EOF _p rated (%)	45		84.1		100	
Conv. Eff.: (%)	64.8	59.3	77.5	74	77.4	78.5

*Minimum Power lamp will run is.

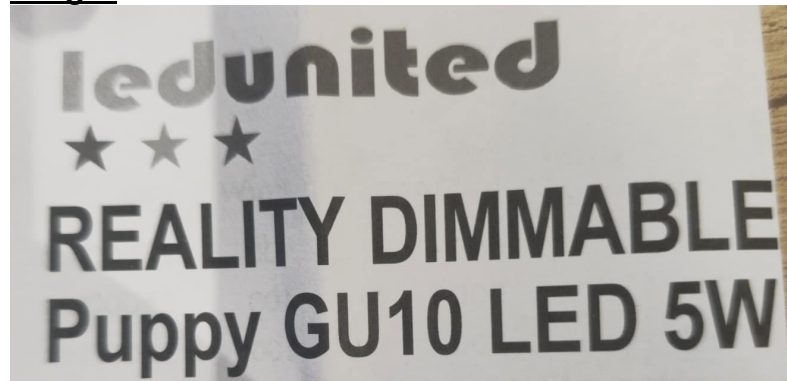
Voltage (V)	Current (mA)	Power (W)
102	2.2	0.22

Comments:

The GU10 lamp consumed 4.2W when supplied with 240 AC.



Images



Report.	Emergency Solution	Customer.	Mr Resistor		
Engineer.	Amila Morawatte	Test Date.	20/08/2026		
Lamp or Fitting.	ledunited 6W GU10 Focus - LEDFGU1062K	FIN.	2080/J3	Job Number	25844

Compatibility:

Not Compatible for conversion

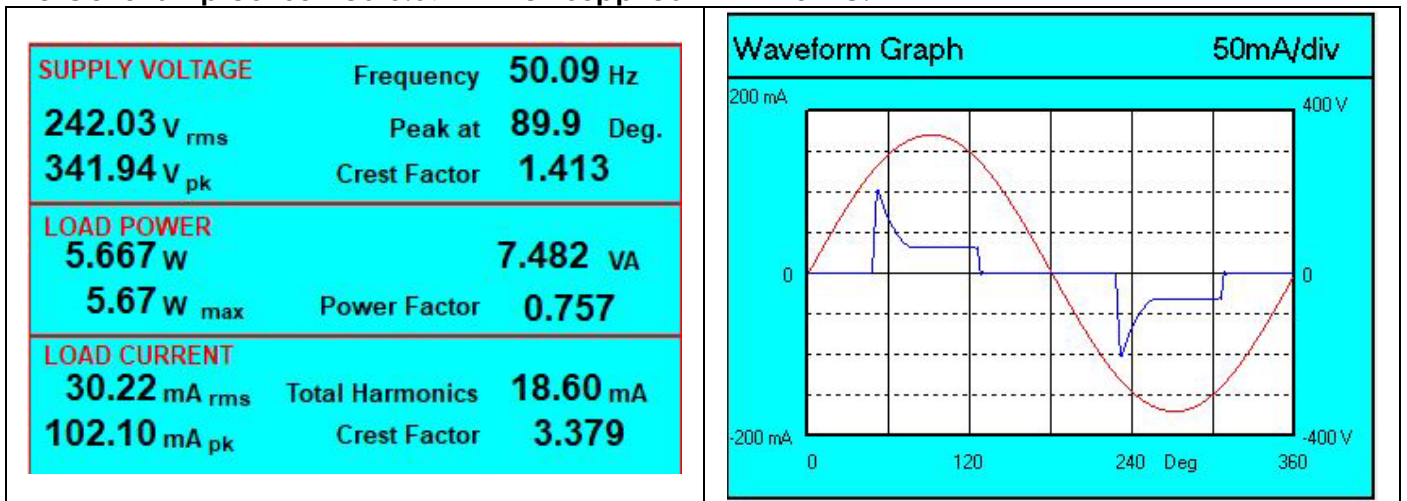
Comments:

Lamp started to conduct current at 22.7V ($22.7V/30.9mA=0.7W$) with no light emitted.
Lamp started to operate in unstable state at 222.8V DC and continued in unstable state up to 250V DC supply. Therefore, minimum power of lamp was not calculated.

Module	LED Voltage (V)	LED Current (mA)	LED Power (W)	Comments
TLP/1S	76.7	30	2.3	No Light Emitted
TLP/2	143.5	30	4.3	No Light Emitted
TLP/2S	174.6	30	5.2	No Light Emitted

Even though the lamp operated with all 3 variants of TLP, no light was emitted.
Mains waveform shows that lamp start to conduct current at $\approx 250V$. Therefore, this lamp is not compatible with any low voltage EM modules.
This GU10 is not compatible with all 3 variants of TLP and low voltage EM Modules. Therefore, this lamp is not compatible for conversion.

The GU10 lamp consumed 5.67W when supplied with 240 AC.



Images



Report.	Emergency Solution	Customer.	Mr Resistor		
Engineer.	Amila Morawatte	Test Date.	20/08/2026		
Lamp or Fitting.	ledunited 7W 3000K GU10 Reality Dimmable ledunited 7W 2700K GU10 Reality Dimmable	FIN.	2080/J3	Job Number	25844

Compatibility:

Lamp	Emergency module	Compatibility result	Connection	Emergency Output Factor (%) (EOFP)
ledunited 7W 3000K GU10 Reality Dimmable (Branded Colour Box)	TLP/1S	COMPATIBLE	To 240V Terminals	32
	TLP/2	COMPATIBLE	To 240V Terminals	63.3
	TLP/2S	COMPATIBLE	To 240V Terminals	78.3
ledunited 7W 2700K GU10 Reality Dimmable - Plain White Box	TLP/1S	COMPATIBLE	To 240V Terminals	31
	TLP/2	COMPATIBLE	To 240V Terminals	63.1
	TLP/2S	COMPATIBLE	To 240V Terminals	77.9

EMERGENCY SOLUTION:

ledunited 7W 3000K GU10 Reality Dimmable						
<u>Mains:</u>						
Mains Power: (W)						
Emergency:	<u>TLP/1S</u> <u>Nominal</u>	<u>TLP/1S</u> <u>Low</u>	<u>TLP/2</u> <u>Nominal</u>	<u>TLP/2</u> <u>Low</u>	<u>TLP/2S</u> <u>Nominal</u>	<u>TLP/2S</u> <u>Low</u>
Battery Voltage: (V)	3.2	2.7	6.4	5.5	6.4	5.5
Battery Current: (A)	1102	1191	875	887	1078	1146
Battery Power: (W)	3.5	3.2	5.6	4.88	6.9	6.3
LED Voltage: (V)	141.8	92.3	147.7	146.9	152.3	149.6
LED Current: (A)	16	22	30	26	36	32
LED Power: (W)	2.3	2	4.4	3.8	5.5	4.8
EOFP rated (%)	32		63.3		78.3	
Conv. Eff.: (%)	64.3	63.1	79.1	78	79.5	76

ledunited 7W 2700K GU10 Reality Dimmable						
<u>Mains:</u>						
Mains Power: (W)	7					
Emergency:	<u>TLP/1S</u> <u>Nominal</u>	<u>TLP/1S</u> <u>Low</u>	<u>TLP/2</u> <u>Nominal</u>	<u>TLP/2</u> <u>Low</u>	<u>TLP/2S</u> <u>Nominal</u>	<u>TLP/2S</u> <u>Low</u>
Battery Voltage: (V)	3.2	2.7	6.4	5.5	6.4	5.5
Battery Current: (A)	1115	1154	874	882	1082	1147
Battery Power: (W)	3.6	3.1	5.6	4.9	6.9	6.3
LED Voltage: (V)	136.8	114.2	147.2	139.6	147.3	144.5
LED Current: (A)	16	16	30	26	37	33
LED Power: (W)	2.2	1.8	4.4	3.6	5.5	4.8
EOFP rated (%)	31		63.1		77.9	
Conv. Eff.: (%)	61.3	58.6	78.9	74.8	78.7	75.6

Comments - ledunited 7W 3000K GU10 Reality Dimmable

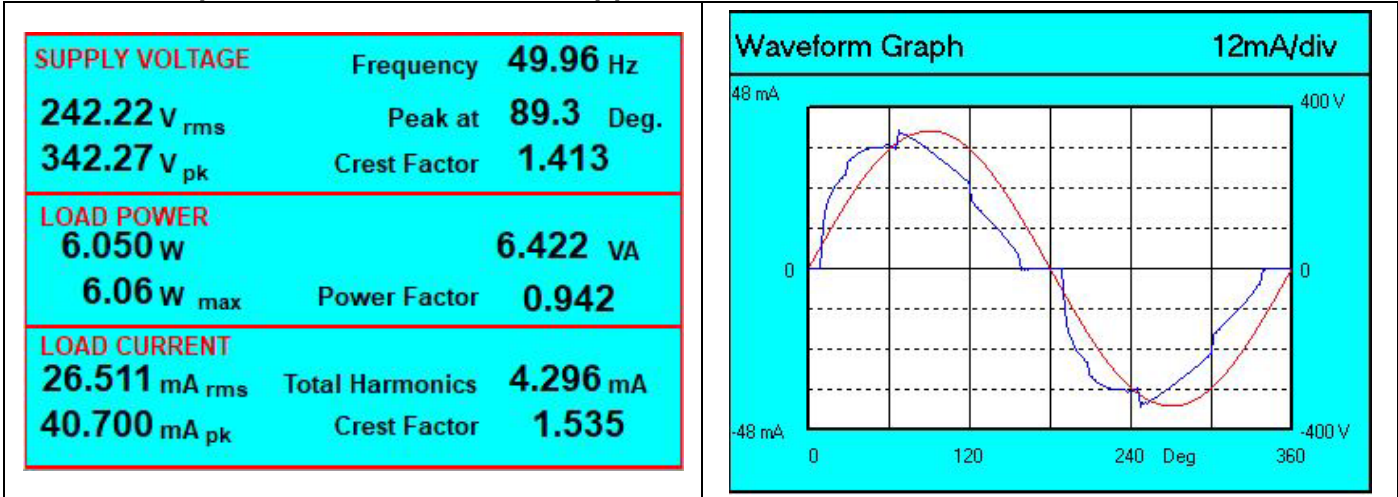
*Minimum Power lamp will run is.

Voltage (V)	Current (mA)	Power (W)
57.1	39.6	2.26

Lamp starts to operate at 106.7V, it can be run down to 57.1V.

NLP/1S/80 and NLP/2S/80 shows open circuit voltage with this GU10.

The GU10 lamp consumed 6.06W when supplied with 240 AC.



Comments ledunited 7W 2700K GU10 Reality Dimmable

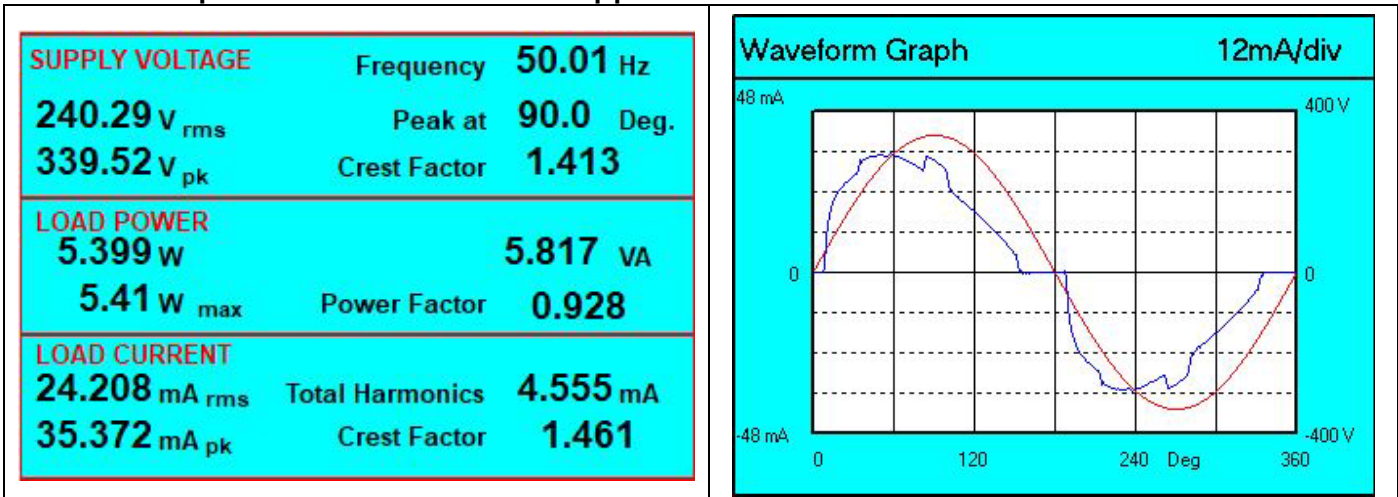
*Minimum Power lamp will run is.

Voltage (V)	Current (mA)	Power (W)
55.8	41.3	2.3

Lamp starts to operate at 104.4V, it can be run down to 55.8V.

NLP/1S/80 and NLP/2S/80 shows open circuit voltage with this GU10.

The GU10 lamp consumed 5.41W when supplied with 240 AC.



Images



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Report.	Emergency Solution	Customer.	Mr Resistor		
Engineer.	Amila Morawatte	Test Date.	20/08/2026		
Lamp or Fitting.	ledunited 10W GU10 Super Focus - SFGU10F3K10WD	FIN.	2080/J3	Job Number	25844

Compatibility:

Not Compatible for conversion

Comments:

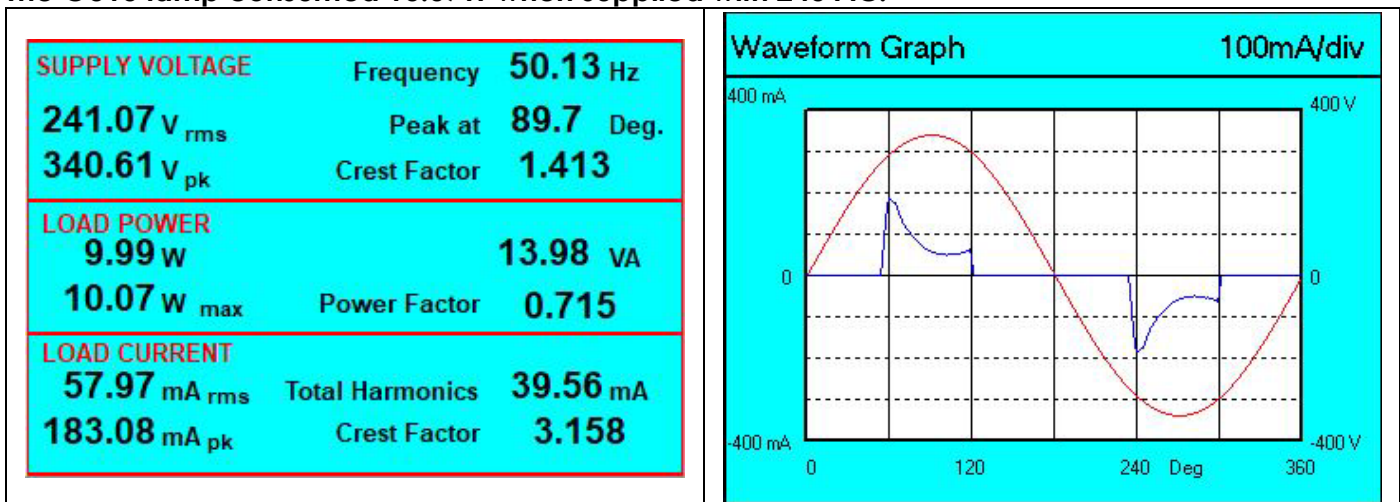
Lamp started to conduct current at 21.1V ($21.1V/33.2mA=0.7W$) with no light emitted. Lamp did not operate at a stable state until 250V DC, therefore, minimum power of lamp was not calculated.

Lamp operates at 72.2V ($72.2V/33mA=2.4W$) when converted with TLP/1S, but no light was emitted. Blinking can be seen when operated with TLP/2 and TLP/2S.

Mains waveform shows that lamp start to conduct current at $\approx 300V$. Therefore, this lamp is not compatible with any low voltage EM modules.

This GU10 is not compatible with all 3 variants of TLP and low voltage EM Modules. Therefore, this lamp is not compatible for conversion.

The GU10 lamp consumed 10.07W when supplied with 240 AC.



Images



Report.	Emergency Solution	Customer.	Mr Resistor		
Engineer.	Amila Morawatte	Test Date.	20/08/2026		
Lamp or Fitting.	Sylvania 4.8W GU10 RefLED Superia - 0030728	FIN.	2080/J3	Job Number	25844

Compatibility:

Emergency module	Compatibility result	Connection	Emergency Output Factor (%) (EOFp)
TLP/2S	COMPATIBLE	To 240V Terminals	100
TLP/2	NOT COMPATIBLE	To 240V Terminals	-

EMERGENCY SOLUTION:

<u>Mains:</u>		
Mains Power: (W)	4.8	
<u>Emergency:</u>	<u>TLP/2S Nominal</u>	<u>TLP/2S Low</u>
Battery Voltage: (V)	6.4	5.5
Battery Current: (mA)	1085	1097
Battery Power: (W)	6.9	6
LED Voltage: (V)	269.3	262.4
LED Current: (mA)	20	18
LED Power: (W)	5.4	4.7
EOF _p rated (%)	100	
Conv. Eff.: (%)	77.6	78.3

***Minimum Power lamp will run is.**

Voltage (V)	Current (mA)	Power (W)
230.7	17.7	4.1

Comments:

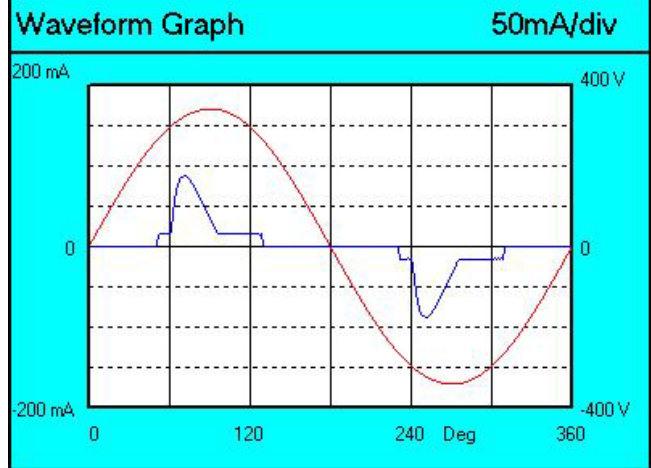
Lamp started to conduct current at 7.3V (7.3V/7.7mA=0.05W) with no light emitted. Light emitting started at 230.7V.

The minimum power lamp operates with DC supply is 4.1W (230.7V/17.7mA).

This lamp blinks when operated with TLP/2. Therefore, it is not compatible with TLP/2.

The GU10 lamp consumed 4.96W when supplied with 240 AC.

SUPPLY VOLTAGE		Frequency	50.05 Hz
241.96 V _{rms}		Peak at	89.2 Deg.
341.88 V _{pk}		Crest Factor	1.413
LOAD POWER			
4.958 w			7.074 VA
4.96 w _{max}		Power Factor	0.701
LOAD CURRENT			
29.24 mA _{rms}	Total Harmonics		20.58 mA
87.54 mA _{pk}	Crest Factor		2.994



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