

Test Report No 151223-101006-F

Standby Power Measurement

Customer	Issuer
Name: goughlui.com Testing	Name: goughlui.com
Address: 1 RoadTest Ave RoadTestVille RoadTestState 1234 RoadTestNation	Address: 1 RoadTest Ave RoadTestVille RoadTestState 1234 RoadTestNation
	Date of issue: 2015-Dec-23
Unit Under Test	Reference Instrument
Manufacturer: Solar Inverters	Manufacturer: Tektronix
Description: LP7663 Power Usage Meter	Description: Power Analyzer
Model: LP7663	Model: PA1000
Serial Number:	Serial Number: B010272
Rated Voltage: 240V	Firmware Version: Ver.1.3.15
Rated Frequency: 50Hz	Test Software: PWRVIEW ver. 1.1.8.3
Documentation ref:	
Configuration: No Load	
Test Conditions	Test Summary
Time of Test: 2015-Dec-23 10:10:06 PM	Average Power: 829.87 mW
Test Voltage: 230V $\pm 1\%$	Power Limit: 1.0000 W
Test Frequency: 50Hz $\pm 1\%$	Power Stability: -1.8890 mW/h
Voltage Distortion: < 2% THC	Uncertainty*: 39.596 mW
Voltage Crest Factor: 1.34 < Vcf < 1.49	Test Period: 00:15:01
Temperature: 23°C $\pm 3^\circ\text{C}$	Test Method: Sampling (IEC62301 Ed.2)
Humidity: < 75%	Test Status: PASS

Power measurements were carried out in accordance with the requirements of IEC 62301 Ed. 2 "Measurement of standby power" and EN 50564:2011 "Electrical and electronic household and office equipment - Measurement of low power consumption" in the laboratory environment, using equipment traceable to national or international standards. All testing was performed under computer control.

* Uncertainty quoted is an average of power measurement uncertainties from the last 2/3 of the test which are due only to the accuracy of the reference instrument used.
If Uncertainty is marked as FAIL it means that at least one power measurement uncertainty in the last 2/3 of the test exceeded the limit prescribed in the standard.

Test Notes	Test Officer
<none>	Full Name: Gough Lui
	Signature: _____

Results

<i>All values in this table refer to results from the last 2/3 of the test</i>	<i>Average</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Min.Limit</i>	<i>Max.Limit</i>	<i>Status</i>
Power	829.87 mW	828.94 mW	830.73 mW	N/A	1.0000 W	PASS
<i>Voltage</i>	230.84 V	230.79 V	230.88 V	227.70 V	232.30 V	PASS
<i>Current</i>	60.986 mA	60.976 mA	60.995 mA	N/A	N/A	N/A
<i>Frequency</i>	50.056 Hz	50.054 Hz	50.057 Hz	49.500 Hz	50.500 Hz	PASS
<i>Power Factor</i>	58.948 m	58.888 m	59.008 m	N/A	N/A	N/A
<i>Voltage Crest Factor</i>	1.4453	1.4446	1.4464	1.3400	1.4900	PASS
<i>Current Crest Factor</i>	2.2250	2.2225	2.2286	N/A	N/A	N/A
<i>Voltage THC</i>	569.69 m%	562.63 m%	576.51 m%	N/A	2.0000 %	PASS
<i>Uncertainty Ratio*</i>	1.3496	1.3481	1.3516	1.0000	N/A	PASS
<i>Result Interval</i>	N/A	N/A	0.5040 s	N/A	1.0000 s	PASS

* Uncertainty Ratio is the ratio of 'Ulim/Ures', where 'Ures' is the uncertainty of each power measurement, due only to the accuracy of the reference instrument used.

'Ulim' is the absolute allowed uncertainty, calculated for each power measurement in accordance with IEC63201 Ed.2 / EN 50564:2011 standards.

If Uncertainty Ratio is marked as FAIL it means that at least one power measurement uncertainty in the last 2/3 of the test exceeded the limit prescribed in the standard.

Power Graphs

Trend Graph

