

SINGLE VOLTAGE EXTERNAL POWER SUPPLY TEST REPORT

Report No.:161200137SHA-001

Issue: 2016-12-12

Applicant: GlobTek, Inc.Applicant Address: 186 Veterans Dr. Northvale, NJ 07647 USAManufacturer: GlobTek (Suzhou) Co., Ltd.Manufacturer Address: Building 4, No. 76 JinLing East Road, Suzhou Industrial Park, Suzhou, JiangSu, 215021, ChinaModel: GT-41080-1817.9-5.9Brand Name: 

Name plate specifications	Input	Output
Voltage (V)	100-240	12
Current (A)	0.6	1.5
Power (W)	N/A	18.00
Frequency (Hz)	50/60	DC

Requirement: ENERGY STAR® Program Requirements for Single Voltage External Ac-Dc and Ac-Ac Power Supplies (Version 2.0 Final)
Test Method for Calculating the Energy Efficiency of Single-Voltage External Ac-Dc and Ac-Ac Power Supplies

Sample Received: December 6, 2016Test performed: December 8, 2016Testing location: Intertek Testing Services Shanghai Limited.

Conclusion: From the results of the testing on the submitted sample(s), we are of the opinion that the submitted sample(s) COMPLY WITH Efficiency Level: **V**

Note:

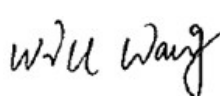
1. This report shall not be reproduced, except in full, without written approval of the laboratory. This test results relate only to the items tested.
2. The results contained in the report are for technical evaluation only and are applicable only to the specific test specimen referenced within the report. When determining the test result measurement uncertainty has been considered.

Prepared by:



Sleif Sui
Project Engineer

Approved by:



Will Wang
Reviewer

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TECHNICAL INFORMATION

Output cord length: 1.8m

Size of the entire UUT: 74mm (L)×44 mm (W)×38mm (H)

Built-in switch on the UUT: No

Product powered by UUT: General Use

Test Equipment

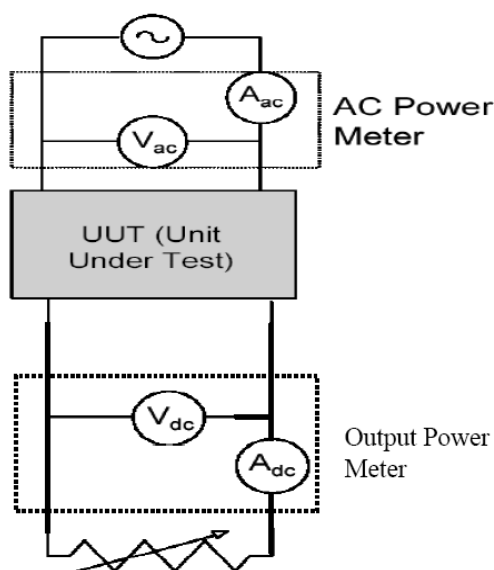
Equipment Name	Type	Number	Calibration Date	Due Date
Ac Source	61512	EC4804	2016-03-24	2017-03-23
Digital Power Meter	WT 210	EC3358	2016-07-01	2017-06-30
Digital Power Meter	WT3000	EC4448	2016-11-10	2017-11-09

TEST PROCESS:

The tests are carried out in a room that has an air speed close to test sample of < 0.5m/s, and the ambient temperature is maintained at 23°C±5°C. The test voltage was 120V at 60Hz.

The test sample was operated at 100% of nameplate current output for at least 30 minutes immediately prior to conducting efficiency measurements. After this warm-up period, if the power level does not drift by more than 5% from the maximum value observed,the UUT can be considered stable and then the measurements were recorded at the end of the 5 minutes period.Subsequent load conditions can then be measured under the same 5 minutes stability guidelines.

test circuit



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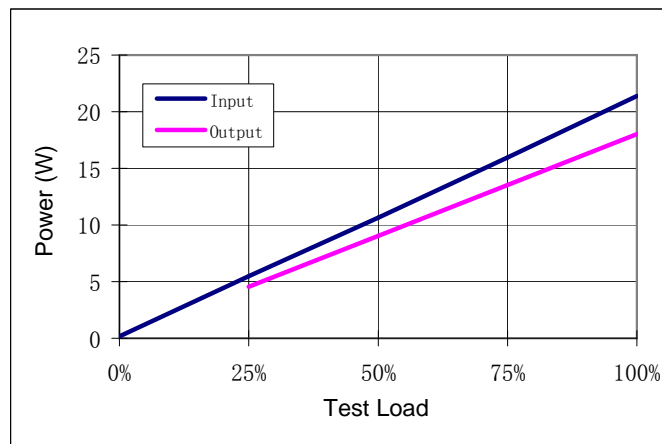
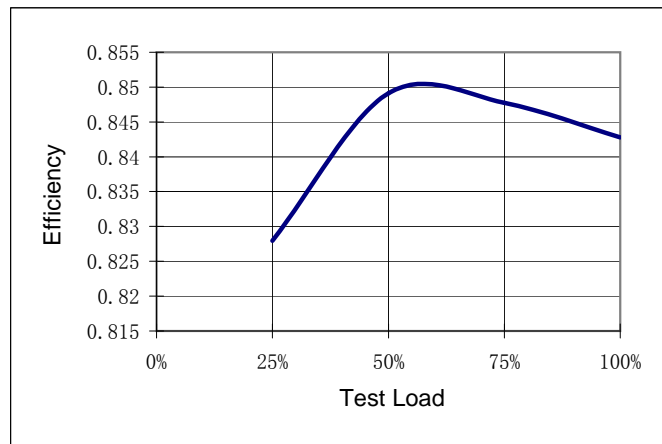
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TEST RESULTS

Sample 1: Test voltage is 120V @ 60Hz

Percent of nameplate current	0%	25%	50%	75%	100%
Rms Output Current (mA)		375.5	750.8	1125.6	1504.2
Rms Output Voltage (V)	12.138	12.096	12.056	12.016	11.980
Active Output Power (W)		4.542	9.052	13.525	18.020
Rms Input Voltage (V)	120.1	120.1	120.1	120.1	120.1
Active Input Power (W)	0.164	5.486	10.660	15.954	21.382
Total Harmonic Distortion(THD) V%	0.015	0.047	0.070	0.087	0.100
Total Harmonic Distortion(THD) A%	49.13	205.85	174.01	154.01	139.12
True Power Factor (W/VA)	0.119	0.407	0.469	0.508	0.538
Power Consumed by EUT(W)		0.944	1.608	2.429	3.362
Efficiency		82.79%	84.91%	84.78%	84.28%
Average Efficiency		84.19%			

Figures:



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Test Result Summary:

Sample Number	Active Efficiency	No-Load Power
Sample 1	84.19%	0.164
Declarable Value	84.19%	0.16
MEPS (level IV)	76.01%	0.50
level V	80.29%	0.30
level VI	85.00%	0.10

The samples tested comply with level: **V**

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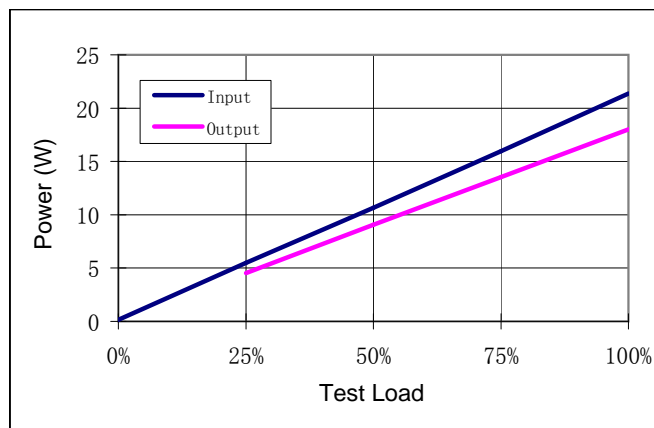
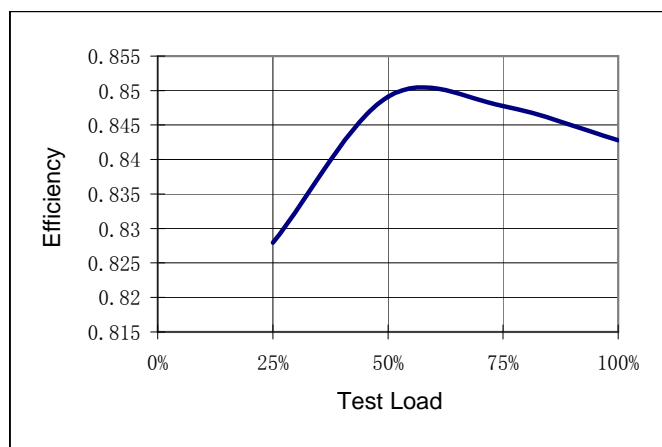
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TEST RESULTS

Sample 1: Test voltage is 230V @ 50Hz

Percent of nameplate current	0%	25%	50%	75%	100%
Rms Output Current (mA)		375.6	750.1	1125.9	1507.5
Rms Output Voltage (V)	12.143	12.102	12.068	12.030	11.989
Active Output Power (W)		4.546	9.052	13.545	18.073
Rms Input Voltage (V)	230.2	230.2	230.2	230.2	230.2
Active Input Power (W)	0.233	5.750	10.824	16.036	21.442
Total Harmonic Distortion(THD) V%	0.013	0.021	0.027	0.032	0.036
Total Harmonic Distortion(THD) A%	24.18	231.80	225.50	209.50	195.60
True Power Factor (W/VA)	0.061	0.319	0.366	0.399	0.426
Power Consumed by EUT(W)		1.204	1.772	2.491	3.369
Efficiency		79.05%	83.63%	84.46%	84.29%
Average Efficiency		82.86%			

Figures:



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Test Result Summary:

Sample Number	Active Efficiency	No-Load Power
Sample 1	82.86%	0.233
Declarable Value	82.86%	0.23
MEPS (level IV)	76.01%	0.50
level V	80.29%	0.30
level VI	85.00%	0.10

The samples tested comply with level: **V**

power consumption for Moxico

The full load condition electric power consumption per hour (Wh) :	21.44
Stand by condition electric power consumption per hour (Wh) :	0.23

Label(s):

GlobTek® ,Inc.
www.globtek.com
ITE POWER SUPPLY (电源供应器)
Fuente de alimentación de ITE

150606-12

PART NO/Parte/料号:
MODEL/Modelo/型号: GT-41080-1817.9-5.9
INPUT/Entrada/输入: 100-240V~,50-60Hz, 0.6A
OUTPUT/Salida/输出: 12V 1.5A

GlobTek, Inc.
 仅适用于在海拔
 2000m以下地区使用

Mfr. Name: GLOBTEK (SUZHOU) CO.,LTD
 A/S Center: 10-6221-6100

LPS IP52

EFFICIENCY LEVEL V
MADE IN CHINA (中国制造) Hecho en China

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Photo(s):



THE END
