



TEST REPORT

**BUREAU
VERITAS**

ENERGY EFFICIENCY - EXTERNAL POWER SUPPLY

Report Number:	BVCZ-EGZ-P21070509
Date of Issue:	2-Aug-2021
Date of Revise:	NONE
Testing Laboratory/Address:	Bureau Veritas Consumer Products Services (Guangzhou) Co., Ltd, Science City Branch Rm.101, G5 Building, South China Advanced Materials Innovation Park, No.31 Kefeng Rd, Guangzhou Science City, Guangzhou, 510663 China
Applicant/Address:	Zhongshan Jitonglong Plastic & Hardware Co.Ltd. 102-302 Block 2, No. 12 SANZHOU Industrial Avenue 2nd Lane, YAGANG, SanXiang Town, ZhongShan, GuangDong, China
Manufacturing Site/Address:	Same as the applicant
Testing Location/Address:	Same as the testing laboratory
Product:	Relocatable Power Taps
Trade Mark:	-
Model(s):	TA1424121F12
Model Similarity:	N/A
Ratings:	Input:125V, 60Hz;Output:5V, DC, 2.1A
Date of Sample(s) Received:	21-Mar-2020
Date of Test Started:	21-Mar-2020
Date of Test Finished:	9-Apr-2020
Standard(s)/Regulation(s):	10 CFR Part 430 Subpart B, Appendix Z IEC 62301:2005
Conclusion:	The product tested comply with the requirements of the DOE standard and the CEC regulation
Prepared by (name, function, signature):	Henry DENG Engineer
Approved by (name, function, signature):	Jeff ZHANG Performance Manager



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Photos:

1. Nameplate showing model number and serial number (if applicable)



2. EPS as received (including all parts and application)



3. Additional photos (if necessary)

N/A

Product Details

Product Information	
Model Number of Unit Under Tested	TA1424121F12
Serial Number	N/A
Condition of Sample(s)	Production
Product Group Code	6
Product Group Code Description	Direct Operation, Single Voltage, AC-DC, low-voltage, 1 watt < rated output power <= 49 watts
Spare Part?	No
Direct Operation or Indirect Operation?	Direct Operation
Single Voltage or Multiple-Voltage?	Single Voltage
AC-DC or AC-AC?	AC-DC
Basic-voltage or Low-voltage?	Low-voltage
Rated Output Voltage [V]	5
Rated Output Current [A]	2.1
Rated Output Power [W]	10.5

Sample No.: N/A Test Date: 2020/3/20

Prepared by: Henry DENG (signature)

Test Results

Sample 1

Load condition	(%)	1 (100 ± 2)	2 (75 ± 2)	3 (50 ± 2)	4 (25 ± 2)	5 (10 ± 1)	6 (0)
Output current	<i>A, r.m.s.</i>	2.1	1.55	1.05	0.53		0
Output voltage	<i>V, r.m.s.</i>	4.5	4.71	4.85	4.97		0
Output power	<i>W</i>	9.5	7.296	5.1	2.628		0
Input voltage	<i>V r.m.s.</i>	114.8	114.8	114.8	114.9		115
Input power	<i>W</i>	12.8	9.36	6.192	3.204		0.072
Input current total harmonic distortion	<i>%ITHD</i>	0.4	0.3	0.3	0.3		2.1
True power factor	-	0.56	0.558	0.482	5.577		0
Power consumed	<i>W</i>	3.3	2.064	1.092	0.576		0.072
Active mode efficiency	-	0.7422	0.7795	0.8236	0.8202		0.0000
Average efficiency	-	0.7914					

Sample 2

Load condition	(%)	1 (100 ± 2)	2 (75 ± 2)	3 (50 ± 2)	4 (25 ± 2)	5 (10 ± 1)	6 (0)
Output current	<i>A, r.m.s.</i>	2.1	1.55	1.05	0.53		115
Output voltage	<i>V, r.m.s.</i>	4.5	4.7	4.83	4.95		60
Output power	<i>W</i>	9.5	7.2	5.07	2.628		0
Input voltage	<i>V r.m.s.</i>	114.8	114.9	114.9	115		115
Input power	<i>W</i>	12.7	9.3	6.3	3.132		0.071
Input current total harmonic distortion	<i>%ITHD</i>	0.6	0.6	0.5	0.5		0
True power factor	-	0.582	0.562	0.512	0.462		
Power consumed	<i>W</i>	3.2	2.1	1.23	0.504		0.071
Active mode efficiency	-	0.748031	0.774194	0.804762	0.83908		0
Average efficiency	-	0.791516852					

Measurements

Item	Unit	Sample 1	Sample 2	Sample 3
No-load power consumption	W	0.072	0.071	
No-load power consumption, Average	W	0.072		
No-load power consumption, sample standard deviation	W	0.0007		
No-load power consumption, UCL/1.05	W	0.074		
No-load power consumption, Declarable	W	0.074		
Maximum No-load power consumption	W	0.1		
Comply with the Maximum No-load power consumption requirement?	-	YES		

Item	Unit	Sample 1	Sample 2	Sample 3
Average active mode efficiency	W	0.791	0.792	
Average active mode efficiency, Average	W	0.791		
Average active mode efficiency, sample standard deviation	W	0.000		
Average active mode efficiency, LCL/0.95	W	0.832		
Average active mode efficiency, Declarable	W	0.791		
Minimum average active mode efficiency	W	0.790		
Comply with the minimum average active mode efficiency requirement?	-	YES		

