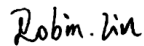


Test Report COMMISSION REGULATION (EU) 2019/1782 implementing Directive 2009/125/EC* of the European Parliament and of the Council with regard to ecodesign requirements for no-load condition electric power consumption and average active efficiency of external power supplies	
Report	
Reference No.:	ACO251103001ER
Tested by (Name +signature)	Bill Hu 
Approved by (Name +signature)	Robin Liu 
Date of issue	2025-11-05
Total pages.....:	10
Testing laboratory	
Name.....:	Shenzhen AOCE Electronic Technology Service Co., Ltd.
Address.....:	Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China
Applicant	
Name.....:	Foshan Fuchaoying Electronic Co., Ltd
Address.....:	Room203& 503, Building 11, District 2, Wanyang Science And Technology Park, No. 1, Huangyong Industrial Avenue, Beijiao Shunde, Foshan
Test specification	
Standard	COMMISSION REGULATION (EU) 2019/1782 EN 50563:2011+A1:2013
Procedure deviation	ERP
Non-standard test method	N/A
Test item	
Description	Replacement AC Adapter
Trademark	N/A
Model and/or type reference	TLK-090
Rating(s)	See product nameplate
Manufacturer	Foshan Fuchaoying Electronic Co., Ltd
Address.....:	Room203& 503, Building 11, District 2, Wanyang Science And Technology Park, No. 1, Huangyong Industrial Avenue, Beijiao Shunde, Foshan

Particulars: test item vs. test requirements	
Type of plug/inlet	Applicant inlet
Output Power(Po).....	See product nameplate
Output cord length	1.5m
Output cord cross-sectional areas.....	0.3mm ²
Possible test case verdicts:	
- test case does not apply to the test object: N/A - test object does meet the requirement: P (Pass) - test object does not meet the requirement: F (Fail)	
Testing	
Date of receipt of test item.....	2025-10-27
Date(s) of performance of tests.....	2025-10-27 to 2025-10-03
General remarks	
This report shall not be reproduced except in full without the written approval of the testing laboratory. The test results presented in this report relate only to the object tested. "(see appended table)" refers to a table appended to the report. "(see remark #)" refers to a remark appended to the report. "(see Annex #)" refers to an annex appended to the report. Throughout this report a comma (point) is used as the decimal separator.	
Summary of testing:	
The sample(s) tested complies with the requirements of COMMISSION REGULATION (EU) 2019/1782. The no-load condition power consumption and the average active efficiency were established by a reliable, accurate and reproducible measurement procedure, which takes into account the generally recognized state of the art. When determining the test conclusion, the Measurement Uncertainty of test has been considered. Measurements of power of 0.50W or greater was made with an uncertainty of less than or equal to 2% at the 95% confidence level. Measurements of power of less than 0.50W was made with an uncertainty of less than or equal to 0.01 W at the 95% confidence level.	

Copy of marking plate:



Note:

Test specification					
Standard		COMMISSION REGULATION (EU) 2019/1782			
Description		The product meets all conditions of a Multiple voltage output external power supplies power supply			
Ambient Temperature		25°C			
		The no-load condition power consumption shall not exceed 0.3 W.			
2020.04.01		AC-AC external power supplies, except low voltage and multiple voltage output external power supplies	AC-DC external power supplies, except low voltage and multiple voltage output external power supplies	Low voltage external power supplies	Multiple voltage output external power supplies
	Po ≤ 49.0 W	0.21W	0.10 W	0.10 W	0.30 W
	Po > 49.0 W	0.21W	0.21W	0.21W	0.30 W
	The average active efficiency shall be not less than the following limits:				
		The average active efficiency shall be not less than:			
		AC-AC external power supplies, except low voltage and multiple voltage output external power supplies	AC-DC external power supplies, except low voltage and multiple voltage output external power supplies	Low voltage external power supplies	Multiple voltage output external power supplies
	Po ≤ 1.0 W	0.5 ×Po/1W+ 0.160	0.5 ×Po/1W+ 0.160	0.5 ×Po/1W+ 0.160	0.497 × Po/1W+ 0.067
	1 W < Po ≤ 49.0W	0.071 ×ln(Po/1W) –0,0014 ×Po/1W+ 0.67	0.071 ×ln(Po/1W) –0,0014 ×Po/1W+ 0.67	0.0834 ×ln(Po/1W) –0.014 ×Po/1W+ 0.609	0.075 ×ln(Po/1W) +0.561
	Po > 49.0 W	0.880	0.880	0.870	0.860
		Where Ln(Po)=Natural Logarithm of the nameplate output expressed in Watts 'low voltage external power supply' means an external power supply with a nameplate output voltage of less than 6 volts and a nameplate output current greater than or equal to 550 milliamperes			
		The relevant load conditions are as follows:			
		Percentage of nameplate output current			
Load condition 1		100 % ± 2 %			
Load condition 2		75 % ± 2 %			
Load condition 3		50 % ± 2 %			
Load condition 4		25 % ± 2 %			
Load condition 5		10 % ± 1 %			
Load condition 6		0 % (no-load condition)			

	For external power supplies with a nameplate output power greater than 10 watts:	
Reported Quantity	Description	
Root mean square output current (mA)	Measured at load conditions 1-5	
Root mean square output voltage (V)		
Active output power (W)		
Root mean square input voltage (V)	Measured at load conditions 1-6	
Root mean square input power (W)		
Total harmonic distortion of the input current		
True power factor		
Power consumed (W)	Calculated at load conditions 1-5, measured at load condition 6	
Active mode efficiency	Calculated at load conditions 1-5	
Average active efficiency	Arithmetical mean of efficiency at load conditions 1-4	
	for external power supplies with a nameplate output power of 10 watts or less:	
Reported Quantity	Description	
Root mean square output current (mA)	Measured at load conditions 1-4	
Root mean square output voltage (V)		
Active output power (W)		
Root mean square input voltage (V)	Measured at load conditions 1-4 and 6	
Root mean square input power (W)		
Total harmonic distortion of the input current		
True power factor		
Power consumed (W)	Calculated at load conditions 1-4, measured at load condition 6	
Active mode efficiency	Calculated at load conditions 1-4	
Average active efficiency	Arithmetical mean of efficiency at load conditions 1-4	

Equipment list				
Measure Machine	Manufacturer	Model	Rating	Calibrate
Digital Power Meter	YOKOGAWA	WT310E	600V, 20A	2025-04-13 to 2026-04-13
Electronic Loading	PRODIGT	6300A	200V, 30A	2025-04-13 to 2026-04-13
Frequency Converter	OYHS	OYHS-988 50-50KVA	300V, 50KVA	2025-04-13 to 2026-04-13

Measurement Result

Model No	TLK-090					
Test voltage/ Frequency	230Vac / 50Hz					
Test Item	Measure at load condition					
	1	2	3	4	5	6
Percent of nameplate current	100%	75%	50%	25%	10%	0%
Output current (A)	2	1.5	1	0.5	0.2	--
Output voltage (V)	4.89	5.02	5.15	5.28	5.35	--
Output power (W)	9.78	7.53	5.15	2.64	1.07	--
a.c. input voltage (V)	230	230	230	230	230	230
a.c. input current (A)	0.141	0.116	0.085	0.050	0.025	--
a.c. input power (W)	12.03	9.53	6.53	3.32	1.36	0.08
Total Harmonic Distortion (VTHD%)	0.796	0.801	0.812	0.823	0.827	--
Total Harmonic Distortion (ATHD%)	249.17	261.28	281.91	325.71	407.35	--
True power factor	0.3719	0.3572	0.3324	0.2862	0.2361	--
Power consumed by EUT(W)	2.25	2.0	1.38	0.68	0.29	--
Active mode efficiency(%)	81.30	79.01	78.87	79.52	78.68	--
Average active efficiency(%)	79.68				--	--
Standard(%)	78.7				--	--
Result	P				--	≤0.1
Supplementary information: Output:5Vdc, 2A						

Model No	TLK-090					
Test voltage/ Frequency	230Vac / 50Hz					
Test Item	Measure at load condition					
	1	2	3	4	5	6
Percent of nameplate current	100%	75%	50%	25%	10%	0%
Output current (A)	3.25	2.4375	1.625	0.8125	0.325	--
Output voltage (V)	19.62	19.83	20.07	20.3	20.44	--
Output power (W)	63.765	48.336	32.614	16.494	6.643	--
a.c. input voltage (V)	230	230	230	230	230	230
a.c. input current (A)	0.616	0.496	0.363	0.199	0.092	--
a.c. input power (W)	70.4	53.21	36.2	17.96	7.33	0.122
Total Harmonic Distortion (VTHD%)	0.924	0.895	0.824	0.805	0.79	--
Total Harmonic Distortion (ATHD%)	166.15	183.35	203.76	234.98	274.17	--
True power factor	0.497	0.466	0.434	0.393	0.345	--
Power consumed by EUT(W)	6.635	4.874	3.586	1.466	0.687	--
Active mode efficiency(%)	90.58	90.84	90.09	91.84	90.63	--
Average active efficiency(%)	90.84				--	--
Standard(%)	88.0				--	--
Result	P				--	≤0.21
Supplementary information: Output:20Vdc, 3.25A						

Attachment: Photos of the product:

Photo 1

Description: Overall view



Photo 2

Description: Overall view



Photo 3

Description: Overall view



Photo 4

Description: Overall view



Photo 5

Description: Overall view



Photo 6

Description: Overall view



---The End of Report---