

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.:	AOC250630007ER
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Approved by (Name +signature)	Robin Liu
Date of issue	2025-07-03
Total pages.....	11
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.....	Shenzhen four seasons electronic co., LTD
Address.....	501, Building B, Jinshanlong Industrial Park, No.1 Xintang Village, Jutang Community, Fucheng Street, Longhua District, Shenzhen City, Guangdong Province (518000)
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	Power Adapter
Trademark	N/A
Model and/or type reference	DYK0051000
Rating(s)	See product nameplate
Manufacturer	Shenzhen four seasons electronic co., LTD
Address.....	501, Building B, Jinshanlong Industrial Park, No.1 Xintang Village, Jutang Community, Fucheng Street, Longhua District, Shenzhen City, Guangdong Province (518000)

Particulars: test item vs. test requirements	
Type of plug/inlet	Direct plug-in
Output Power(Po).....	See product nameplate
Output cord length	N/A
Output cord cross-sectional areas.....	N/A
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.....	2025-05-27
Date(s) of performance of tests	2025-05-27 to 2025-06-30
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:

Power Adapter
DYK0051000
Input: 100-240V~, 50/60Hz, 0.15A
Output: DC 5V, 1A



Manufacturer: Shenzhen four seasons electronic co., LTD
Made in China

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	0.517 ×Po/1W+ 0.087	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				
Equipment Name	Manufacturer	Model	Reference No.	Calibration Due Date
Frequency Converter	OYHS	OYHS-98850-50 KVA	AOC-S-001	2026-04-13
Voltage Stabilizer	OYHS	OYHS-8200	AOC-S-002	2026-04-13
Voltage Regulator	DELIXI	TDGC2-10K	AOC-S-003	2026-04-13
Digital Power Meter	YOKOGAWA	WT310E	AOC-S-012	2026-04-13
Digital temperature hygrometer	Shenzhen Ritors Instrumentation Co.,Ltd	RTS-8	AOC-S-068	2026-04-13
Digital multimeter	FLUKE	F15B	AOC-S-039	2026-04-13
DC electronic Load	ITECH ELECTRONIC CO.,LTD.	IT8512	AOC-S-060	2026-04-13

Measurement Result

Model No	CCCJG25CE					
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)	1	0.75	0.5	0.25	0.1	--
Output voltage (V)	5.12	5.18	5.22	5.27	5.21	--
Output power (W)	5.12	3.89	2.61	1.32	0.52	--
a.c. input voltage (V)	230	230	230	230	230	230
a.c. input current (A)	0.07	0.05	0.04	0.02	0.01	--
a.c. input power (W)	6.81	5.15	3.49	1.79	0.71	0.09
Total Harmonic Distortion (VTHD%)	0.882	0.866	0.869	0.871	0.889	--
Total Harmonic Distortion (ATHD%)	194.57	212.57	236.11	273.48	316.77	--
True power factor	0.4415	0.4169	0.3803	0.3396	0.2678	--
Power consumed by EUT(W)	1.69	1.27	0.88	0.47	0.19	--
Active mode efficiency(%)	75.18%	75.44%	74.79%	73.60%	73.38%	--
Average active efficiency(%)	74.75%				--	
Standard(%)	73.62%				--	
Result	P				--	
Supplementary information: USB-A Output: 5V 1A						
- Test load: Electronic load						
- Stability achieved: Yes						
- Above tables for output data may be extended if more than 2 outputs for multiple output external power supply.						
Average active mode efficiency: 83.81% exceed below limit value:						
□ 0.5×Po/1W+0.160; □ 0.517×Po/1W+0.087; □ 0.497×Po/1W+ 0.067; □ 0.071 × ln(Po/1W) – 0.0014 × Po/1W+ 0.67; ☒ 0.0834 × ln(Po/1W) – 0.0014 × Po/1W+ 0.609; □ 0.075 × ln(Po/1W) + 0.561; □ 0.88; □ 0.87; □ 0.86						
The no-load condition consumption shall not exceed 0.1W.						

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

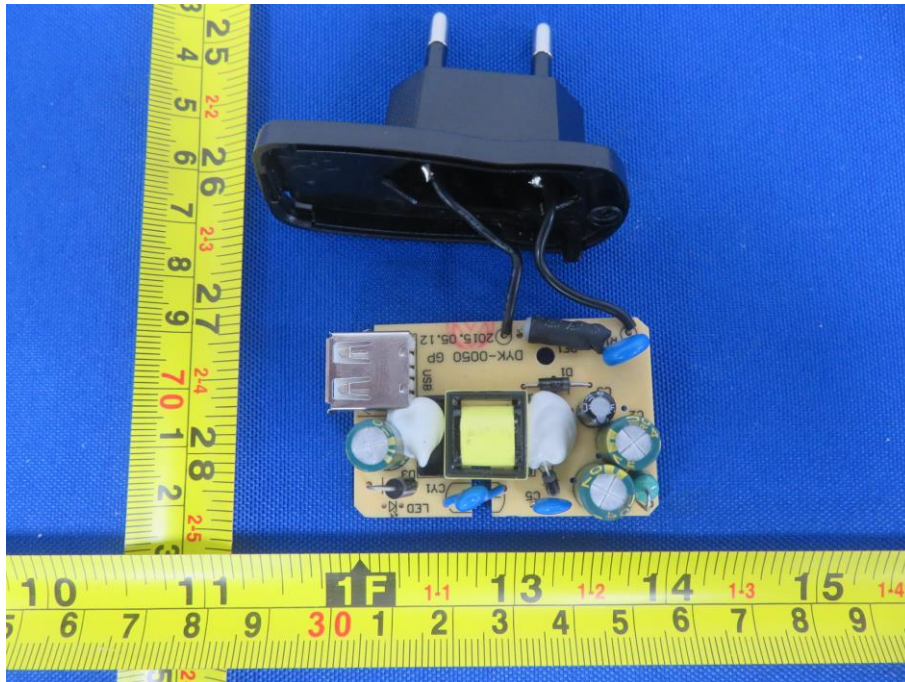
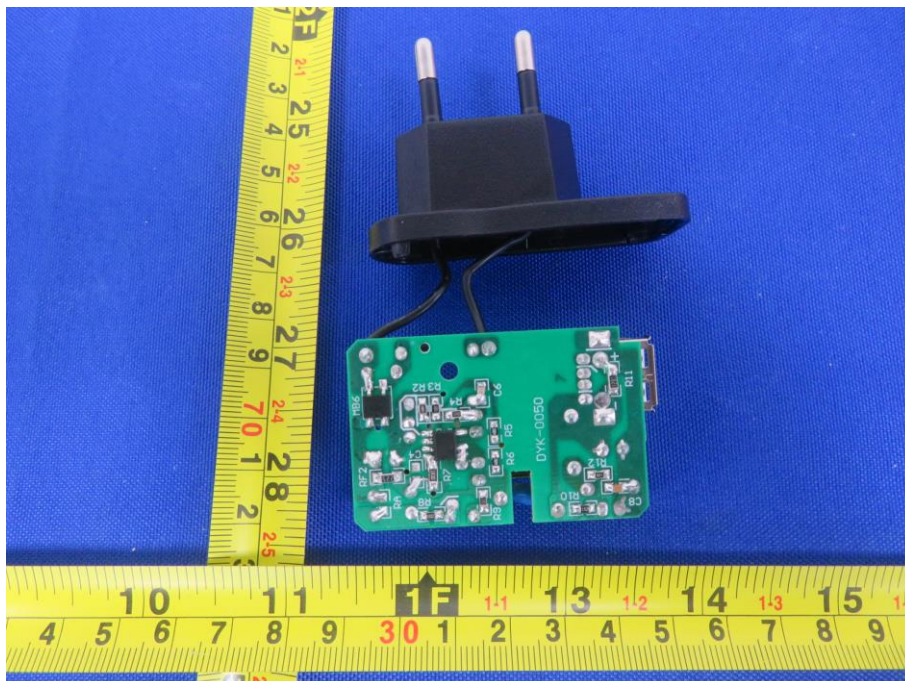


Photo 6

Description: Overall view



---The End of Report---