


TEST REPORT

Report No: PRMS2407109-05SR

Issued for

Jiangxi Liandi technology Co.,LTD

4 to 5 floors north of 6 Chuangzhi Science Park High-tech
Industrial Development Zone, Fuzhou City, Jiangxi Province

Product Name:	Fast Charger
Brand Name:	
Model Name:	LD-PQS20WEU
Test Standard:	COMMISSION REGULATION (EU) 2019/1782

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TEST REPORT

COMMISSION REGULATION (EU) 2019/1782

Report reference No.....:	PRMS2407109-05SR
Date of issue	Aug. 16, 2024
Total number of pages.....:	16 pages
Tested by (signature).....:	Pahsien Ma 
Approved by (signature).....:	Kind Yang 
Testing Laboratory Name.....:	Shenzhen PromiseTest Technology Co., Ltd.
Address.....:	103, Building 1, Yibaolai Industrial Zone, Chongqing Road, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Testing location.....:	As above
Applicant's name.....:	Jiangxi Liandi technology Co.,LTD
Address.....:	4 to 5 floors north of 6 Chuangzhi Science Park High-tech Industrial Development Zone, Fuzhou City, Jiangxi Province
Test specification:	
Standard.....:	COMMISSION REGULATION (EU) 2019/1782 Compliance with COMMISSION REGULATION (EU) 2019/1782 of 1 October 2019, EN 50563:2011+A1:2013 and
Test method	IEC62301:2011, International Efficiency Marking Protocol for External Power Supplies Version 3.0 September 2013, Code of Conduct on Energy Efficiency of External Power Supplies Version 5
Non-standard test method	None
Test item description.....:	Fast Charger
Trademark.....:	
Manufacturer.....:	Same as applicant
Address.....:	Same as applicant
Model and/or type reference.....:	LD-PQS20WEU
Rating(s).....:	Input: 100-240V~ 50/60Hz 0.5A Max Output: USB-C: 5V= 3.0A, 9V= 2.22A, 12V= 1.67A 20.04W USB-A: 5V= 3.0A, 9V= 2.0A, 12V= 1.5A 18.0W PPS: 3.3-5.9= 3.0A, 3.3-11.0V= 1.8A USB-A+USB-C: 5V= 3A Output 20W Max
Output Cord Length (cm)	180cm
Output cord cross-sectional areas.....	Min 18AWG

Copy of marking plate:

Fast Charger

Model: LD-PQS20WEU

Input: 100-240V~ 50/60Hz 0.5A

**Output-A: 5.0V=3.0A, 9.0V=2.0A
12.0V=1.5A 18W MAX**

**Output-C: 5.0V=3.0A, 9.0V=2.22A
12.0V=1.67A 20.04W MAX**

PPS: 3.3-5.9V=3.0A 3.3-11.0V=1.8A

USB-A+USB-C: 5.0V=3.0A 20W MAX



Made in China

2408

Jiangxi Liandi Technology Co.,LTD

Note: /

Summary of testing:

The product does compliance with with COMMISSION REGULATION (EU) 2019/1782 of 1 October 2019.

General remarks:

The test results presented in this report relate only to the object tested.

COMMISSION REGULATION (EU) 2019/1782			
Section	Requirement + Test	Result - Remark	Verdict
Article 1	Subject matter and scope		P
1	This Regulation establishes ecodesign requirements related to electric power consumption in no-load condition and average active efficiency of external power supplies.	EUT is Ac-Dc external power supply.	P
2	This Regulation shall not apply to:		P
	(a) voltage converters;		--
	(b) uninterruptible power supplies;		--
	(c) battery chargers;		--
	(d) halogen lighting converters;		--
	(e) external power supplies for medical devices;		--
	(f) active power over Ethernet injectors		--
	(g) docking stations for autonomous appliances		--

COMMISSION REGULATION (EU) 2019/1782			
Section	Requirement + Test	Result - Remark	Verdict
	(h) external power supplies placed on the market no later than 30 June 2015 as a service part or spare part for an identical external power supply which was placed on the market not later than one year after this Regulation has come into force, under the condition that the service part or spare part, or its packaging, clearly indicates the primary load product(s) for which the spare part or service part is intended to be used with.		--

Article 2	Definitions		P
1	external power supply' means a device which meets all of the following criteria:		P
	(a) it is designed to convert alternating current (AC) power input from the mains power source input into lower voltage direct current (DC) or AC output;		P
	(b) it is used with one or more separate devices that constitute the primary load;		P
	(c) it is contained in a physical enclosure separate from the device or devices that constitute the primary load;		P
	(d) it is connected to the device or devices that constitute the primary load with removable or hard-wired male/female electrical connections, cables, cords or other wirings;		P
	(e) it has nameplate output power not exceeding 250 watts; and	<250W	P
	(f) it is used with electrical and electronic household and office equipment included in Annex I		P
2	'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;		N/A
3	'multiple voltage output external power supply' means an external power supply able to convert AC power input from the mains power source into more than one simultaneous output at lower DC or AC voltage;		N/A
4	'voltage converter' means a device converting the 230 volts mains power source input to 110 volts power output with characteristics similar to mains power source input characteristics;		N/A
5	'uninterruptible power supply' means a device that automatically provides backup power when the electrical power from the mains power source drops to an unacceptable voltage level;		N/A
6	'battery charger' means a device which connects directly to a removable battery at its output interface;		N/A
7	'lighting converter' means an external power supply used with extra low voltage light sources;		N/A

COMMISSION REGULATION (EU) 2019/1782			
Section	Requirement + Test	Result - Remark	Verdict
8	'active power over Ethernet injector' means a device that converts the mains power source input to a lower DC voltage output, has one or more Ethernet input and/or one or more Ethernet output ports, delivers power to one or several devices connected to the Ethernet output port(s), and provides the rated voltage at the output ports(s) only when compatible devices are detected following a standardised process;		N/A
9	'active power over Ethernet injector' means a device that converts the mains power source input to a lower DC voltage output, has one or more Ethernet input and/or one or more Ethernet output ports, delivers power to one or several devices connected to the Ethernet output port(s), and provides the rated voltage at the output ports(s) only when compatible devices are detected following a standardised process;		N/A
10	'mains' means the electricity supply from the grid of 230 (± 10 %) volts of alternating current at 50 Hz;		P
11	'information technology equipment' means any equipment which has a primary function of either entry, storage, display, retrieval, transmission, processing, switching, or control, of data or of telecommunication messages or a combination of these functions and may be equipped with one or more terminal ports typically operated for information transfer;		N/A
12	'domestic environment' means an environment where the use of broadcast radio and television receivers may be expected within a distance of 10 m of the equipment concerned;		N/A
13	'nameplate output power' (P_O) means the output power as specified by the manufacturer;		P
14	'no-load condition' means the condition in which the input of an external power supply is connected to the mains power source, but the output is not connected to any primary load;		P
15	'active mode' means a condition in which the input of an external power supply is connected to the mains power source and the output is connected to a load;		P
16	'active mode efficiency' means the ratio of the power produced by an external power supply in active mode to the input power required to produce it;		P
17	'average active efficiency' means the average of the active mode efficiencies at 25 %, 50 %, 75 % and 100 % of the nameplate output power.		P
18	'equivalent model' means a model which has the same technical characteristics relevant for the technical information to be provided, but which is placed on the market or put into service by the same manufacturer, importer or authorised		P

COMMISSION REGULATION (EU) 2019/1782			
Section	Requirement + Test	Result - Remark	Verdict
	representative as another model with a different model identifier;		
19	'model identifier' means the code, usually alphanumeric, which distinguishes a specific product model from other models with the same trade mark or the same manufacturer's, importer's or authorised representative's name.		P

Article 3	Ecodesign requirements		P
	The ecodesign requirements related to no-load electric power consumption and average active efficiency of external power supplies placed on the market are set out in Annex I.		P

Article 4	Conformity assessment		N/A
1	The conformity assessment procedure referred to in Article 8 of Directive 2009/125/EC shall be the internal design control system set out in Annex IV to that Directive or the management system set out in Annex V to that Directive.		N/A
2	For the purposes of the conformity assessment pursuant to Article 8 of Directive 2009/125/EC, the technical documentation shall contain the declared values of parameters listed in Annex II, point 2(c).		N/A
3	Where the information included in the technical documentation for a particular model has been obtained:		N/A
(a)	from a model that has the same technical characteristics relevant for the technical information to be provided but is produced by a different manufacturer		--
(b)	by calculation on the basis of design or extrapolation from another model of the same or a different manufacturer, or both; the technical documentation shall include the details and the results of such calculation, the assessment undertaken by manufacturers to verify the accuracy of the calculation and, where appropriate, the declaration of identity between the models of different manufacturers. The technical documentation shall include a list of all equivalent models, including the model identifiers.		--

Article 5	Verification procedure for market surveillance purposes		N/A
	Member States' authorities shall apply the verification procedure laid down in Annex III when performing the market surveillance checks referred to in Article 3, point 2 of Directive 2009/125/EC.		N/A

COMMISSION REGULATION (EU) 2019/1782			
Section	Requirement + Test	Result - Remark	Verdict
Article 6	Benchmarks		N/A
	The benchmarks for the best-performing products and technologies available on the market at the time of adopting this Regulation are set out in Annex IV.		N/A
Article 7	Revision		P
	The Commission shall review this Regulation in the light of technological progress and shall present the results of this review, including, if appropriate, a draft revision proposal, to the Consultation Forum by 14 November 2022.		P
	The review shall assess in particular: the feasibility of setting a requirement regarding minimum energy efficiency at 10 % load; options for including within the scope of the Regulation wireless chargers, active power over Ethernet injectors, and external power supplies used with electrical and electronic household and office equipment that is not included in Annex I; and options for including requirements in support of circular economy objectives, including interoperability.		P
Article 8	Repeal		P
1	Regulation (EC) No 278/2009 is repealed as from 1 April 2020.		P
Article 9	Entry into force and application		P
	This Regulation shall enter into force on the twentieth day following that of its publication in the Official Journal of the European Union. It shall apply from 1 April 2020.		P
	This Regulation shall be binding in its entirety and directly applicable in all Member States.		P
ANNEX II	Ecodesign requirements for external power supplies		P
1	Energy efficiency requirements:		P
(a)	from 1 April 2020, the no-load condition power consumption shall not exceed the following values: AC-DC external power supplies with $PO \leq 49.0W$ except low voltage external power supplies, the no-load condition power consumption shall not exceed 0.10 W		P

COMMISSION REGULATION (EU) 2019/1782				
Section	Requirement + Test			Verdict
		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
	$P_O \leq 49,0 \text{ W}$	0,21 W	0,10 W	0,10 W
	$P_O > 49,0 \text{ W}$	0,21 W	0,21 W	0,30 W
(b)	from 1 April 2020, the average active efficiency shall be not less than the following values: $0.071 \times \ln(P_O/1W) - 0.0014 \times P_O/1W + 0.67$, for $1.00 \text{ W} < P_O \leq 49.0W$			P
		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
	$P_O \leq 1,0 \text{ W}$	$0,5 \times P_O/1W + 0,160$	$0,5 \times P_O/1W + 0,160$	$0,517 \times P_O/1W + 0,087$
	$1 \text{ W} < P_O \leq 49,0 \text{ W}$	$0,071 \times \ln(P_O/1W) - 0,0014 \times P_O/1W + 0,67$	$0,071 \times \ln(P_O/1W) - 0,0014 \times P_O/1W + 0,67$	$0,0834 \times \ln(P_O/1W) - 0,0014 \times P_O/1W + 0,609$
	$P_O > 49,0 \text{ W}$	0,880	0,880	0,870
2	Information requirements:			P
(a)	from 1 April 2020, the nameplate shall include the following information:			P
	Nameplate information	Value and precision	Unit	Notes
	Output power	X,X	W	In cases where more than one physical output or more than one output voltage at load condition 1 are measured, the sets of available Output voltage — Output current — Output power shall be given.
	Output voltage	X,X	V	In cases where more than one physical output or more than one output voltage at load condition 1 are measured, the sets of available Output voltage — Output current — Output power shall be given.
	Output current	X,X	A	In cases where more than one physical output or more than one output voltage at load condition 1 are measured, the sets of available Output voltage — Output current — Output power shall be given.
(b)	from 1 April 2020, instruction manuals for end-users (where applicable), and free access websites of manufacturers, importers or authorised			P

COMMISSION REGULATION (EU) 2019/1782																	
Section	Requirement + Test	Result - Remark	Verdict														
	representatives shall include the following information, in the order as set out below:																
	The relevant load conditions are as follows:																
<table><tr><th colspan="2">Percentage of nameplate output current</th></tr><tr><td>Load condition 1</td><td>100 % ± 2 %</td></tr><tr><td>Load condition 2</td><td>75 % ± 2 %</td></tr><tr><td>Load condition 3</td><td>50 % ± 2 %</td></tr><tr><td>Load condition 4</td><td>25 % ± 2 %</td></tr><tr><td>Load condition 5</td><td>10 % ± 1 %</td></tr><tr><td>Load condition 6</td><td>0 % (no-load condition)</td></tr></table>				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)
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)																
(c)	from 1 April 2020, the technical documentation for the purposes of conformity assessment pursuant to Article 4 shall contain the following elements:		P														
(1)	for external power supplies with a nameplate output power greater than 10 watts:		P														
(2)	for external power supplies with a nameplate output power of 10 watts or less:		N/A														
3	Measurements and calculations		P														
	For the purposes of compliance and verification of compliance with the requirements of this Regulation, measurements and calculations shall be made using harmonised standards the reference numbers of which have been published for this purpose in the Official Journal of the European Union, or other reliable, accurate and reproducible methods, which take into account the generally recognised state of the art.		P														

Tested model:	LD-PQS20WEU				Nameplate Output:		USB-C 5V= 3.0A
Test specimen 1	at 115V/60Hz						
Percent of Nameplate Current	0%	10%	25%	50%	75%	100%	Remark
RMS Input Voltage (V)	115	115	115	115	115	115	--
Input Frequency (Hz)	60	60	60	60	60	60	--
RMS Input Power (W)	0.04	1.80	4.47	9.06	13.73	18.64	Input Power (Pin)
Total Harmonic Distortion (THDv, %)	0.45	0.53	0.61	0.86	1.06	1.26	--
True Power Factor	--	0.423	0.455	0.475	0.500	0.526	--
Output Voltage (Vdc)	5.10	5.06	5.03	4.98	4.94	4.88	--
Output Current (A)	--	0.3	0.75	1.5	2.25	3	--
Active Output Power (W)	--	1.52	3.77	7.47	11.12	14.64	Output Power (Pout)
Input Wh interval [min]	5	5	5	5	5	5	--
Power Consumed by UUT (W)	0.04	0.25	0.7	1.59	2.61	4	<0.1Wat no load *)
Efficiency (%)	--	84.44	84.34	82.45	80.99	78.54	(Pout/Pin)*100%
27Average Efficiency (%)	--		81.58				>81.39% at active mode *)
Test specimen 1	at 230V/50Hz						
Percent of Nameplate Current	0%	10%	25%	50%	75%	100%	Remark
RMS Input Voltage (V)	230	230	230	230	230	230	--
Input Frequency (Hz)	50	50	50	50	50	50	--
RMS Input Power (W)	0.07	1.90	4.48	9.11	13.63	18.49	Input Power (Pin)
Total Harmonic Distortion (THDv, %)	0.62	0.60	0.64	0.61	0.63	0.64	--
True Power Factor	--	0.328	0.386	0.429	0.446	0.462	--
Output Voltage (Vdc)	5.09	5.05	5.02	4.98	4.93	4.87	--
Output Current (A)	--	0.3	0.75	1.5	2.25	3	--
Active Output Power (W)	--	1.52	3.77	7.47	11.09	14.61	Output Power (Pout)
Input Wh interval [min]	5	5	5	5	5	5	--
Power Consumed by UUT (W)	0.07	0.38	0.71	1.64	2.54	3.88	<0.1Wat no load *)
Efficiency (%)	--	80.00	84.15	82.00	81.36	79.02	(Pout/Pin)*100%
Average Efficiency (%)	--		81.63				>81.39% at active mode *)
Note: *) See ANNEX II							

Tested model:	LD-PQS20WEU				Nameplate Output:	USB-C 12V= 1.67A	
Test specimen 1	at 115V/60Hz						
Percent of Nameplate Current	0%	10%	25%	50%	75%	100%	Remark
RMS Input Voltage (V)	115	115	115	115	115	115	--
Input Frequency (Hz)	60	60	60	60	60	60	--
RMS Input Power (W)	0.04	2.57	6.02	11.89	17.73	23.43	Input Power (Pin)
Total Harmonic Distortion (THDv, %)	0.44	0.57	0.72	0.98	1.22	1.44	--
True Power Factor	--	0.437	0.465	0.490	0.522	0.550	--
Output Voltage (Vdc)	12.22	12.21	12.19	12.17	12.14	12.12	--
Output Current (A)	--	0.167	0.4175	0.835	1.2525	1.67	--
Active Output Power (W)	--	2.04	5.09	10.16	15.21	20.24	Output Power (Pout)
Input Wh interval [min]	5	5	5	5	5	5	--
Power Consumed by UUT (W)	0.04	0.53	0.93	1.73	2.52	3.19	<0.1Wat no load *)
Efficiency (%)	--	79.38	84.55	85.45	85.79	86.38	(Pout/Pin)*100%
27Average Efficiency (%)	--		85.54				>85.48% at active mode *)
Test specimen 1	at 230V/50Hz						
Percent of Nameplate Current	0%	10%	25%	50%	75%	100%	Remark
RMS Input Voltage (V)	230	230	230	230	230	230	--
Input Frequency (Hz)	50	50	50	50	50	50	--
RMS Input Power (W)	0.07	2.67	6.04	11.92	17.71	23.41	Input Power (Pin)
Total Harmonic Distortion (THDv, %)	0.62	0.63	0.61	0.63	0.65	0.63	--
True Power Factor	--	0.346	0.406	0.442	0.458	0.475	--
Output Voltage (Vdc)	12.21	12.20	12.19	12.19	12.15	12.12	--
Output Current (A)	--	0.167	0.4175	0.835	1.2525	1.67	--
Active Output Power (W)	--	2.04	5.09	10.18	15.22	20.24	Output Power (Pout)
Input Wh interval [min]	5	5	5	5	5	5	--
Power Consumed by UUT (W)	0.07	0.63	0.95	1.74	2.49	3.17	<0.1Wat no load *)
Efficiency (%)	--	76.40	84.27	85.40	85.94	86.46	(Pout/Pin)*100%
Average Efficiency (%)	--		85.52				>85.48% at active mode *)
Note: *) See ANNEX II							

Tested model:	LD-PQS20WEU				Nameplate Output: USB-A 5V= 3.0A		
Test specimen 1	at 115V/60Hz						
Percent of Nameplate Current	0%	10%	25%	50%	75%	100%	Remark
RMS Input Voltage (V)	115	115	115	115	115	115	--
Input Frequency (Hz)	60	60	60	60	60	60	--
RMS Input Power (W)	0.04	1.78	4.48	9.13	13.89	18.99	Input Power (Pin)
Total Harmonic Distortion (THDv, %)	0.42	0.52	0.65	0.87	1.10	1.30	--
True Power Factor	--	0.425	0.458	0.478	0.503	0.530	--
Output Voltage (Vdc)	5.09	5.09	5.08	5.05	5.02	4.99	--
Output Current (A)	--	0.3	0.75	1.5	2.25	3	--
Active Output Power (W)	--	1.53	3.81	7.58	11.3	14.97	Output Power (Pout)
Input Wh interval [min]	5	5	5	5	5	5	--
Power Consumed by UUT (W)	0.04	0.25	0.67	1.55	2.59	4.02	<0.1Wat no load *)
Efficiency (%)	--	85.96	85.04	83.02	81.35	78.83	(Pout/Pin)*100%
27Average Efficiency (%)	--		82.06				>81.39% at active mode *)
Test specimen 1	at 230V/50Hz						
Percent of Nameplate Current	0%	10%	25%	50%	75%	100%	Remark
RMS Input Voltage (V)	230	230	230	230	230	230	--
Input Frequency (Hz)	50	50	50	50	50	50	--
RMS Input Power (W)	0.07	1.89	4.55	9.16	13.74	18.69	Input Power (Pin)
Total Harmonic Distortion (THDv, %)	0.59	0.60	0.62	0.63	0.65	0.64	--
True Power Factor	--	0.328	0.386	0.430	0.446	0.462	--
Output Voltage (Vdc)	5.09	5.06	5.06	5.03	5.01	4.98	--
Output Current (A)	--	0.3	0.75	1.5	2.25	3	--
Active Output Power (W)	--	1.52	3.8	7.55	11.27	14.94	Output Power (Pout)
Input Wh interval [min]	5	5	5	5	5	5	--
Power Consumed by UUT (W)	0.07	0.37	0.75	1.61	2.47	3.75	<0.1Wat no load *)
Efficiency (%)	--	80.42	83.52	82.42	82.02	79.94	(Pout/Pin)*100%
Average Efficiency (%)	--		81.97				>81.39% at active mode *)
Note: *) See ANNEX II							

Tested model:	LD-PQS20WEU				Nameplate Output:		USB-A 12V== 1.5A
Test specimen 1	at 115V/60Hz						
Percent of Nameplate Current	0%	10%	25%	50%	75%	100%	Remark
RMS Input Voltage (V)	115	115	115	115	115	115	--
Input Frequency (Hz)	60	60	60	60	60	60	--
RMS Input Power (W)	0.04	2.34	5.41	10.71	16.04	21.18	Input Power (Pin)
Total Harmonic Distortion (THDv, %)	0.43	0.45	0.67	0.95	1.17	1.38	--
True Power Factor	--	0.433	0.461	0.484	0.512	0.539	--
Output Voltage (Vdc)	12.23	12.21	12.20	12.19	12.17	12.14	--
Output Current (A)	--	0.15	0.375	0.75	1.125	1.5	--
Active Output Power (W)	--	1.83	4.58	9.14	13.69	18.21	Output Power (Pout)
Input Wh interval [min]	5	5	5	5	5	5	--
Power Consumed by UUT (W)	0.04	0.51	0.83	1.57	2.35	2.97	<0.1Wat no load *)
Efficiency (%)	--	78.21	84.66	85.34	85.35	85.98	(Pout/Pin)*100%
27Average Efficiency (%)	--		85.33				>85.01% at active mode *)
Test specimen 1	at 230V/50Hz						
Percent of Nameplate Current	0%	10%	25%	50%	75%	100%	Remark
RMS Input Voltage (V)	230	230	230	230	230	230	--
Input Frequency (Hz)	50	50	50	50	50	50	--
RMS Input Power (W)	0.07	2.45	5.42	10.73	16.00	21.16	Input Power (Pin)
Total Harmonic Distortion (THDv, %)	0.60	0.61	0.62	0.66	0.64	0.62	--
True Power Factor	--	0.342	0.401	0.438	0.454	0.470	--
Output Voltage (Vdc)	12.21	12.19	12.18	12.16	12.14	12.12	--
Output Current (A)	--	0.15	0.375	0.75	1.125	1.5	--
Active Output Power (W)	--	1.83	4.57	9.12	13.66	18.18	Output Power (Pout)
Input Wh interval [min]	5	5	5	5	5	5	--
Power Consumed by UUT (W)	0.07	0.62	0.85	1.61	2.34	2.98	<0.1Wat no load *)
Efficiency (%)	--	74.69	84.32	85.00	85.38	85.92	(Pout/Pin)*100%
Average Efficiency (%)	--		85.15				>85.01% at active mode *)
Note: *) See ANNEX II							

Tested model:	LD-PQS20WEU				Nameplate Output:	USB-A+USB-C 5V= 3.0A	
Test specimen 1	at 115V/60Hz						
Percent of Nameplate Current	0%	10%	25%	50%	75%	100%	Remark
RMS Input Voltage (V)	115	115	115	115	115	115	--
Input Frequency (Hz)	60	60	60	60	60	60	--
RMS Input Power (W)	0.04	1.76	4.39	8.82	13.23	17.90	Input Power (Pin)
Total Harmonic Distortion (THDv, %)	0.50	0.57	0.62	0.82	1.06	1.24	--
True Power Factor	--	0.423	0.456	0.476	0.501	0.526	--
USB-C Output Voltage (Vdc)	5.07	5.04	5.02	4.98	4.93	4.89	--
USB-C Output Current (A)	--	0.15	0.375	0.75	1.125	1.5	--
USB-C Active Output Power (W)	--	0.76	1.88	3.74	5.55	7.34	Output Power (Pout)
USB-A Output Voltage (Vdc)	5.07	5.04	5.02	4.98	4.92	4.87	
USB-A Output Current (A)	--	0.15	0.375	0.75	1.125	1.5	
USB-A Active Output Power (W)	--	0.76	1.88	3.74	5.54	7.31	
Total Active Output Power (W)	--	1.52	3.76	7.48	11.09	14.65	
Input Wh interval [min]	5	5	5	5	5	5	--
Power Consumed by UUT (W)	0.04	0.24	0.63	1.34	2.14	3.25	<0.3Wat no load *)
Efficiency (%)	--	86.36	85.65	84.81	83.82	81.84	(Pout/Pin)*100%
27Average Efficiency (%)	--		84.03				>76.42% at active mode *)
Test specimen 1	at 230V/50Hz						
Percent of Nameplate Current	0%	10%	25%	50%	75%	100%	Remark
RMS Input Voltage (V)	230	230	230	230	230	230	--
Input Frequency (Hz)	50	50	50	50	50	50	--
RMS Input Power (W)	0.07	1.88	4.49	8.93	13.26	17.84	Input Power (Pin)
Total Harmonic Distortion (THDv, %)	0.62	0.64	0.61	0.62	0.65	0.66	--
True Power Factor	--	0.327	0.384	0.428	0.444	0.459	--
USB-C Output Voltage (Vdc)	5.07	5.05	5.03	4.99	4.95	4.91	--
USB-C Output Current (A)	--	0.15	0.375	0.75	1.125	1.5	--
USB-C Active Output Power (W)	--	0.76	1.89	3.74	5.57	7.37	Output Power (Pout)
USB-A Output Voltage (Vdc)	5.07	5.05	5.02	4.98	4.93	4.89	
USB-A Output Current (A)	--	0.15	0.375	0.75	1.125	1.5	
USB-A Active Output Power (W)	--	0.76	1.88	3.74	5.55	7.34	

Total Active Output Power (W)	--	1.52	3.77	7.48	11.12	14.71	
Input Wh interval [min]	5	5	5	5	5	5	--
Power Consumed by UUT (W)	0.07	0.36	0.72	1.45	2.14	3.13	<0.3Wat no load *)
Efficiency (%)	--	80.85	83.96	83.76	83.86	82.46	(Pout/Pin)*100%
Average Efficiency (%)	--		83.51				>76.42% at active mode *)
Note: *) See ANNEX II							

Test Equipment List:

Equipment	Model	Manufacturer	Parameter	Uncertainty	Cal. Date	Valid Date
Digital Power Meter	WT210 E	YOKOGA WA	0-600Vac, 0-20A, 0-10000W, 45-65Hz, PF:-1~+1	Vol: Urel=0.8%(k=2); Cur: Urel=0.9%(k=2); Pow: Urel=0.1%(k=2); Fre: Urel=0.2%(k=2); Ene: Urel=0.2%(k=2); V(Thd): Urel=0.1%(k=2); I(Thd): Urel=0.1%(k=2); PF: U=0.002(k=2)	2024.05.14	2025.05.13
DC Electronic Load	IT8512+	ITECH	120Vdc, 30A, 300W	Vol: Urel=0.05%(k=2); Cur: Urel=0.1%(k=2)	2024.05.14	2025.05.13
Temperature and Humidity Recorder	MC505	Shenzhen Youkong	0°C~100°C; 0%-100%RH	Tem: U=0.6°C(k=2); Hum: U=3%RH(k=2)	2024.05.19	2025.05.18

Photos of EUT

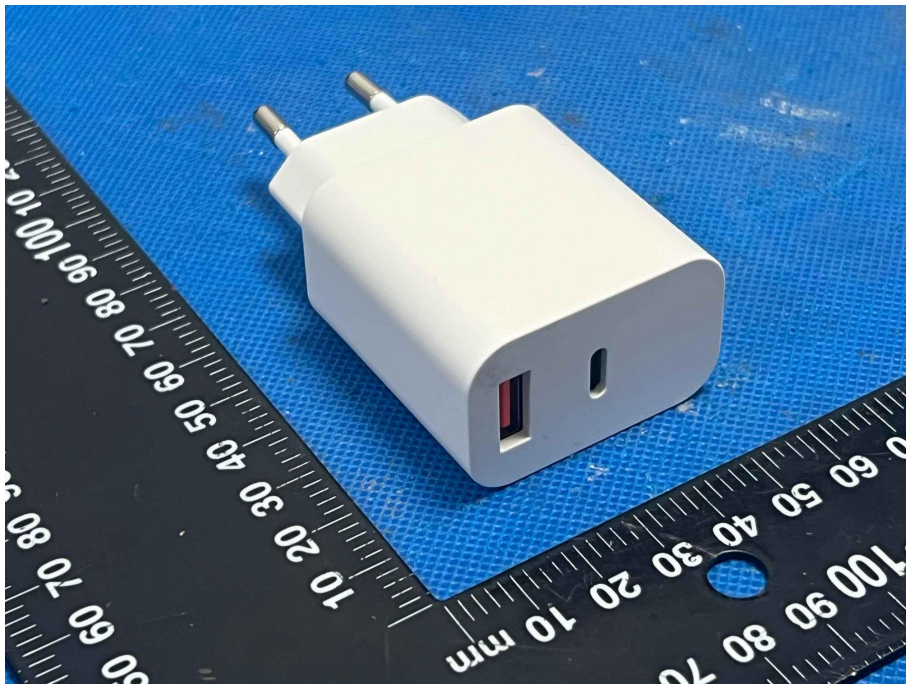


Figure 1 External view



Figure 2 External view

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