

## TEST REPORT

### COMMISSION REGULATION (EU) 2019/1782

Ecodesign requirements for no-load condition electric power consumption and average active efficiency  
Implementation Measure EC Regulation (EU) 2019/1782

**Report Reference No.**.....: AST2210201021

**Tested by (+ signature)**.....: Jerry Wu

**Reviewed by (+ signature)**.....: Done Fan

**Approved by (+ signature)**.....: Ron Long

**Date of issue**.....: Nov. 01, 2022

**Total number of pages**.....: Total 12 pages



#### Testing laboratory

**Name**.....: Aerospace Testing Technology (Shenzhen) Co., Ltd.

**Address**.....: 101, Block A1, No. 5, 8th Road, Shapu Yangyong Industrial Park,  
Songgang Street, Bao'an District, Shenzhen, Guangdong, China

**Testing location**.....: Same as above

**Applicant Name**.....: Shenzhen ghsou Technology Co., Ltd

**Address**.....: 4-5 / F, building 24, Xitian third industrial zone, Gongming town,  
Guangming District, Shenzhen, Guangdong Province, China.

**Manufacturer name**.....: Same as applicant

**Address**.....: Same as applicant

**Factory name**.....: Same as applicant

**Address**.....: Same as applicant

#### Test specification :

**Standard**.....: (EC) 2019/1782

Test method: EN 50563:2011+A1:2013, 10 CFR 430 Appendix Z

**Test procedure**.....: EU-Directive

**Non-standard test method**.....: N/A

**Test Report Form No.**.....: EU 2019/1782-V01

**Test Report Form(s) Originator**.....: AST

**Master TRF**.....: 2020-05



Test item	
Test item description .....	charger
Brand Name.....	GHSOU
Model/Type reference.....	GHY-050240, GHY-050100, GHY-050150, GHY-050200
Ratings.....	Input: 110-240V~, 50/60Hz, 0.5A Max Output: 5.0V $\equiv$ 2.4A 12.0W
Product category:	
Name plate power output .....	12.0W
Declared No-load power consumption .....	0.08W
Declared average active efficiency.....	81.50%
Declared efficiency at load 10% .....	78.81%
Type of power supply .....	<input type="checkbox"/> Multiple-voltage external power supply <input checked="" type="checkbox"/> Single-voltage external power supply
<b>Possible test case verdicts:</b>	
- 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)
<b>Testing</b> .....	
Date of receipt of test item.....	2022-10-26
Date (s) of performance of tests.....	2022-10-26 to 2022-11-01
<b>Note:</b>	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.	
<b>Summary of testing:</b>	
After test, The product meets the stage 1 of (EU) 2019/1782 Annex II	
<b>General remarks:</b>	
All models are different only in model name and appearance color, other are consistent, no safety risk. All tests were conducted under GHY-050240 to represent all models.	

**Copy of Marking Plate**

**charger**

Model: GHY-050240

Input: 110-240V~,50/60Hz, 0.5A Max

PD Output: 5.0V  $\overline{\overline{=}}$ 2.4A 12.0W



Shenzhen ghsou Technology Co., Ltd

Importer: XXX

Address: XXX

Made in China

Remark: the final marking shall have rated output current, voltage and power in it.

Test environment requirements and instrument connection methods			Verdict
0.1	Ambient condition met requirement of: Ambient temperature (23 +5°C) Airspeed ≤0.5m/s	Ambient: 24.5°C Airspeed: 0.1m/s	P
0.2	Where the product has an ambient light sensor that affects the power consumption, the test shall be carried out with controlled ambient light conditions. Where the illuminance levels are externally defined (in a test procedure or in the instructions for use), these values shall be used. Where no illuminance levels are stated or defined, reference illuminance levels of >300 lx and <10 lx shall be used.		N/A
0.3	Power source meets requirement of: Voltage 230V +1% Frequency 50Hz + 1% THD value<2% Ratio of peak value of test voltage to rms of 1.34 to 1.49	Voltage: 230V Frequency: 50/60Hz THD(voltage): <2% Crest factor: 1.41	P
0.4	Power measurement accuracy		P
	Any power measurements recorded, as well as any power measurement equipment utilized for testing, shall conform to the uncertainty and resolution requirements outlined in Clause 4, "General conditions for measurements," as well as Annexes B, "Notes on the measurement of low power modes," and D, "Determination of uncertainty of measurement," of IEC 62301:2011.		P
0.5	Test circuit		P
	Test circuit acc. To Fig.1 is used		P
<p>Fig.1 Test circuit</p>			



Section	Requirement + Test	Result - Remark	Verdict																				
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:		P																				
	<table border="1"> <thead> <tr> <th></th> <th>AC-AC external power supplies, except low voltage and multiple voltage output external power supplies</th> <th>AC-DC external power supplies, except low voltage and multiple voltage output external power supplies</th> <th>Low voltage external power supplies</th> <th>Multiple voltage output external power supplies</th> </tr> </thead> <tbody> <tr> <td><math>P_o \leq 49,0 \text{ W}</math></td> <td>0,21 W</td> <td>0,10 W</td> <td>0,10 W</td> <td>0,30 W</td> </tr> <tr> <td><math>P_o &gt; 49,0 \text{ W}</math></td> <td>0,21 W</td> <td>0,21 W</td> <td>0,21 W</td> <td>0,30 W</td> </tr> </tbody> </table>		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	0,30 W	$P_o > 49,0 \text{ W}$	0,21 W	0,21 W	0,21 W	0,30 W	See table 1	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																			
$P_o \leq 49,0 \text{ W}$	0,21 W	0,10 W	0,10 W	0,30 W																			
$P_o > 49,0 \text{ W}$	0,21 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:		P																				
	<table border="1"> <thead> <tr> <th></th> <th>AC-AC external power supplies, except low voltage and multiple voltage output external power supplies</th> <th>AC-DC external power supplies, except low voltage and multiple voltage output external power supplies</th> <th>Low voltage external power supplies</th> <th>Multiple voltage output external power supplies</th> </tr> </thead> <tbody> <tr> <td><math>P_o \leq 1,0 \text{ W}</math></td> <td><math>0,5 \times P_o/1\text{W} + 0,160</math></td> <td><math>0,5 \times P_o/1\text{W} + 0,160</math></td> <td><math>0,517 \times P_o/1\text{W} + 0,087</math></td> <td><math>0,497 \times P_o/1\text{W} + 0,067</math></td> </tr> <tr> <td><math>1 \text{ W} &lt; P_o \leq 49,0 \text{ W}</math></td> <td><math>0,071 \times \ln(P_o/1\text{W}) - 0,0014 \times P_o/1\text{W} + 0,67</math></td> <td><math>0,071 \times \ln(P_o/1\text{W}) - 0,0014 \times P_o/1\text{W} + 0,67</math></td> <td><math>0,0834 \times \ln(P_o/1\text{W}) - 0,0014 \times P_o/1\text{W} + 0,609</math></td> <td><math>0,075 \times \ln(P_o/1\text{W}) + 0,561</math></td> </tr> <tr> <td><math>P_o &gt; 49,0 \text{ W}</math></td> <td>0,880</td> <td>0,880</td> <td>0,870</td> <td>0,860</td> </tr> </tbody> </table>		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	$P_o \leq 1,0 \text{ W}$	$0,5 \times P_o/1\text{W} + 0,160$	$0,5 \times P_o/1\text{W} + 0,160$	$0,517 \times P_o/1\text{W} + 0,087$	$0,497 \times P_o/1\text{W} + 0,067$	$1 \text{ W} < P_o \leq 49,0 \text{ W}$	$0,071 \times \ln(P_o/1\text{W}) - 0,0014 \times P_o/1\text{W} + 0,67$	$0,071 \times \ln(P_o/1\text{W}) - 0,0014 \times P_o/1\text{W} + 0,67$	$0,0834 \times \ln(P_o/1\text{W}) - 0,0014 \times P_o/1\text{W} + 0,609$	$0,075 \times \ln(P_o/1\text{W}) + 0,561$	$P_o > 49,0 \text{ W}$	0,880	0,880	0,870	0,860	See table 1	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																			
$P_o \leq 1,0 \text{ W}$	$0,5 \times P_o/1\text{W} + 0,160$	$0,5 \times P_o/1\text{W} + 0,160$	$0,517 \times P_o/1\text{W} + 0,087$	$0,497 \times P_o/1\text{W} + 0,067$																			
$1 \text{ W} < P_o \leq 49,0 \text{ W}$	$0,071 \times \ln(P_o/1\text{W}) - 0,0014 \times P_o/1\text{W} + 0,67$	$0,071 \times \ln(P_o/1\text{W}) - 0,0014 \times P_o/1\text{W} + 0,67$	$0,0834 \times \ln(P_o/1\text{W}) - 0,0014 \times P_o/1\text{W} + 0,609$	$0,075 \times \ln(P_o/1\text{W}) + 0,561$																			
$P_o > 49,0 \text{ W}$	0,880	0,880	0,870	0,860																			
2.	Information requirements:		P																				
(a)	from 1 April 2020, the nameplate shall include the following information:		P																				
	<table border="1"> <thead> <tr> <th>Nameplate information</th> <th>Value and precision</th> <th>Unit</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Output power</td> <td>X,X</td> <td>W</td> <td>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.</td> </tr> <tr> <td>Output voltage</td> <td>X,X</td> <td>V</td> <td>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.</td> </tr> <tr> <td>Output current</td> <td>X,X</td> <td>A</td> <td>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.</td> </tr> </tbody> </table>	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.	See "copy of marking plate"	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 representatives shall include the following information, in the order as set out below:		P																				

Section	Requirement + Test	Result - Remark	Verdict																																												
	<table border="1"> <thead> <tr> <th>Information published</th> <th>Value and precision</th> <th>Unit</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Manufacturer's name or trade mark, commercial registration number and address</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Model identifier</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Input voltage</td> <td>X</td> <td>V</td> <td>Specified by the manufacturer. Shall be a value or a range.</td> </tr> <tr> <td>Input AC frequency</td> <td>X</td> <td>Hz</td> <td>Specified by the manufacturer. Shall be a value or a range.</td> </tr> <tr> <td>Output voltage</td> <td>X,X</td> <td>V</td> <td>Nameplate output voltage. Shall indicate whether is AC or DC. 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 published.</td> </tr> <tr> <td>Output current</td> <td>X,X</td> <td>A</td> <td>Nameplate output current. 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 published.</td> </tr> <tr> <td>Output power</td> <td>X,X</td> <td>W</td> <td>Nameplate output power. 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 published.</td> </tr> <tr> <td>Average active efficiency</td> <td>X,X</td> <td>%</td> <td>Declared by the manufacturer based on the value calculated as arithmetical mean of efficiency at load conditions 1-4. In cases where multiple average active efficiencies are declared for multiple output voltages available at load condition 1, the value published shall be the average active efficiency declared for the lowest output voltage.</td> </tr> <tr> <td>Efficiency at low load (10 %)</td> <td>X,X</td> <td>%</td> <td>Declared by the manufacturer based on the value calculated at load condition 5. External power supplies with a nameplate output power of 10 W or less shall be exempted from this requirement. In cases where multiple average active efficiencies are declared for multiple output voltages available at load condition 1, the value published shall be the value declared for the lowest output voltage.</td> </tr> <tr> <td>No-load power consumption</td> <td>X,XX</td> <td>W</td> <td>Declared by the manufacturer based on the value measured for load condition 6.</td> </tr> </tbody> </table>	Information published	Value and precision	Unit	Notes	Manufacturer's name or trade mark, commercial registration number and address	-	-	-	Model identifier	-	-	-	Input voltage	X	V	Specified by the manufacturer. Shall be a value or a range.	Input AC frequency	X	Hz	Specified by the manufacturer. Shall be a value or a range.	Output voltage	X,X	V	Nameplate output voltage. Shall indicate whether is AC or DC. 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 published.	Output current	X,X	A	Nameplate output current. 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 published.	Output power	X,X	W	Nameplate output power. 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 published.	Average active efficiency	X,X	%	Declared by the manufacturer based on the value calculated as arithmetical mean of efficiency at load conditions 1-4. In cases where multiple average active efficiencies are declared for multiple output voltages available at load condition 1, the value published shall be the average active efficiency declared for the lowest output voltage.	Efficiency at low load (10 %)	X,X	%	Declared by the manufacturer based on the value calculated at load condition 5. External power supplies with a nameplate output power of 10 W or less shall be exempted from this requirement. In cases where multiple average active efficiencies are declared for multiple output voltages available at load condition 1, the value published shall be the value declared for the lowest output voltage.	No-load power consumption	X,XX	W	Declared by the manufacturer based on the value measured for load condition 6.	See table 3	P
Information published	Value and precision	Unit	Notes																																												
Manufacturer's name or trade mark, commercial registration number and address	-	-	-																																												
Model identifier	-	-	-																																												
Input voltage	X	V	Specified by the manufacturer. Shall be a value or a range.																																												
Input AC frequency	X	Hz	Specified by the manufacturer. Shall be a value or a range.																																												
Output voltage	X,X	V	Nameplate output voltage. Shall indicate whether is AC or DC. 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 published.																																												
Output current	X,X	A	Nameplate output current. 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 published.																																												
Output power	X,X	W	Nameplate output power. 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 published.																																												
Average active efficiency	X,X	%	Declared by the manufacturer based on the value calculated as arithmetical mean of efficiency at load conditions 1-4. In cases where multiple average active efficiencies are declared for multiple output voltages available at load condition 1, the value published shall be the average active efficiency declared for the lowest output voltage.																																												
Efficiency at low load (10 %)	X,X	%	Declared by the manufacturer based on the value calculated at load condition 5. External power supplies with a nameplate output power of 10 W or less shall be exempted from this requirement. In cases where multiple average active efficiencies are declared for multiple output voltages available at load condition 1, the value published shall be the value declared for the lowest output voltage.																																												
No-load power consumption	X,XX	W	Declared by the manufacturer based on the value measured for load condition 6.																																												
	The relevant load conditions are as follows:		P																																												

Section	Requirement + Test	Result - Remark	Verdict																	
	<table border="1"> <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)		P			
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																	
	In cases where more than one physical output or more than one output voltage at load condition 1 are measured, the relevant reported quantities shall be specified for each measurement.		P																	
	The relevant load conditions are set out in point 2(b).		P																	
(2)	for external power supplies with a nameplate output power of 10 watts or less:		N/A																	
	<table border="1"> <thead> <tr> <th>Reported Quantity</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Root mean square output current (mA)</td> <td rowspan="3">Measured at load conditions 1-4</td> </tr> <tr> <td>Root mean square output voltage (V)</td> </tr> <tr> <td>Active output power (W)</td> </tr> <tr> <td>Root mean square input voltage (V)</td> <td rowspan="4">Measured at load conditions 1-4 and 6</td> </tr> <tr> <td>Root mean square input power (W)</td> </tr> <tr> <td>Total harmonic distortion of the input current</td> </tr> <tr> <td>True power factor</td> </tr> <tr> <td>Power consumed (W)</td> <td>Calculated at load conditions 1-4, measured at load condition 6</td> </tr> <tr> <td>Active mode efficiency</td> <td>Calculated at load conditions 1-4</td> </tr> <tr> <td>Average active efficiency</td> <td>Arithmetical mean of efficiency at load conditions 1-4</td> </tr> </tbody> </table>	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	See table 1	N/A
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																			
	In cases where more than one physical output or more than one output voltage at load condition 1 are measured, the relevant reported quantities shall be specified for each measurement.		N/A																	
	The relevant load conditions are set out in point 2(b).		N/A																	

<b>Table 1: Measurement and calculation</b>						P
Test Item	Measure at load condition (Percentage of nameplate output current)					
	100%	75%	50%	25%	10%	0%
Rated Output: 5.0Vdc, 2.4A						
Output current (mA)	2400	1800	1200	600	240	0
Output voltage (V)	4.92	4.93	4.95	4.94	4.96	5.05
Active output power (W)	11.81	8.87	5.94	2.96	1.19	--
Test voltage and frequency: 230V/50Hz						
Input voltage (V)	230	230	230	230	230	230
Input current (A)	0.140	0.110	0.078	0.046	0.024	0
Input power (W)	14.49	10.79	7.18	3.72	1.51	0.08
THD (current) (%)	181.2	201.6	244.7	292.1	306.3	--
THD (voltage) (%)	0.58	0.54	0.56	0.61	0.75	--
True power factor	0.221	0.206	0.185	0.172	0.152	--
Power Consumed (W)	0.64%	0.63%	0.62%	0.62%	0.32	0.08
Active mode Efficiency	81.50%	82.21%	82.73%	79.57%	78.81%	--
Average active Efficiency (%)	81.50				--	--
Supplementary information: - Input cable: -- - Output cable: -- - * 10% load test only for external power supply with a name plate output power great than 10W						

<b>Table 2: Test results summary</b>					P
Rated Output	No Load Power Consumption (W)		Average Active Efficiency (%)		Verdict
	Measure	Limit	Measure	Limit	
Output: 5.0Vdc, 2.4A	0.08	0.1	81.50	79.95	F



Table 3: Information in instruction manuals for end-users (where applicable), and free access websites of manufacturers, importers or authorised representatives				P
Information published	Value and precision	Unit	Notes	
Manufacturer's name or trade mark, commercial registration number and address	--	-	-	
Model identifier	--	-	-	
Input AC voltage	110-240	V	Specified by the manufacturer. Shall be a value or a range.	
Input frequency	50/60	Hz	Specified by the manufacturer. Shall be a value or a range.	
Output voltage	5.0	V	Nameplate output voltage. Shall indicate whether is AC or DC. 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 published.	
Output current	2.4	A	Nameplate output current. 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 published.	
Output power	12.0	W	Nameplate output power. 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 published.	
Average active efficiency	81.50	%	Declared by the manufacturer based on the value calculated as arithmetical mean of efficiency at load conditions 1-4. In cases where multiple average active efficiencies are declared for multiple output voltages available at load condition 1, the value published shall be the average active efficiency declared for the lowest output voltage.	

Efficiency at low load (10 %)	78.81	%	Declared by the manufacturer based on the value calculated at load condition 5. External power supplies with a nameplate output power of 10 W or less shall be exempted from this requirement. In cases where multiple average active efficiencies are declared for multiple output voltages available at load condition 1, the value published shall be the value declared for the lowest output voltage.
No-load power consumption	0.08	W	Declared by the manufacturer based on the value measured for load condition 6.

Photograph

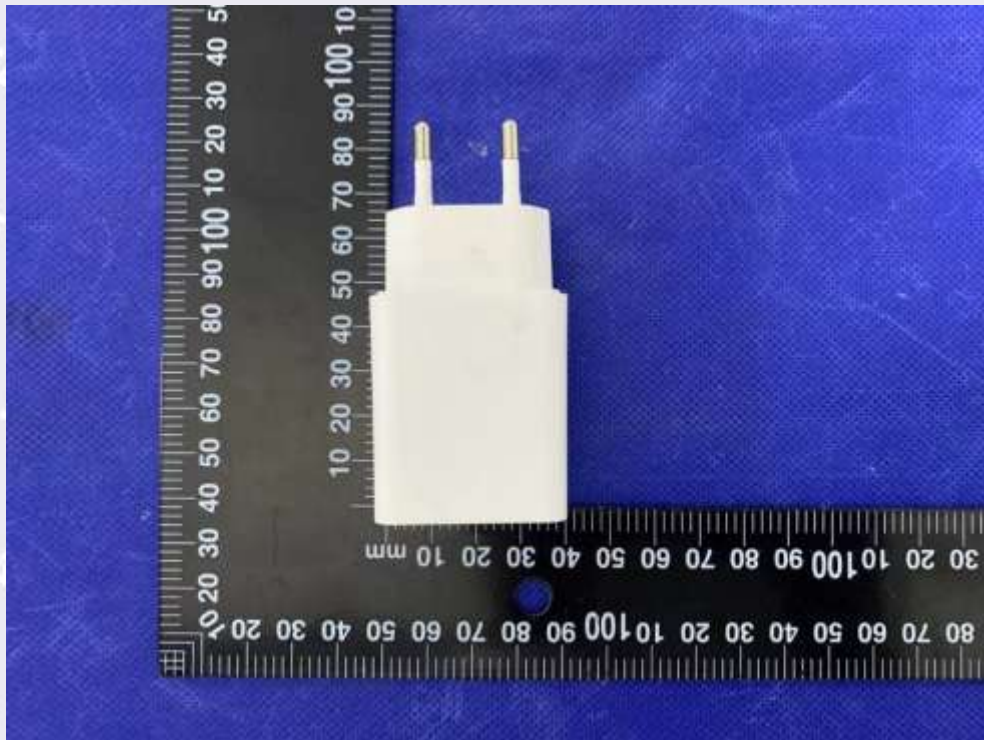


Fig 1 Overview

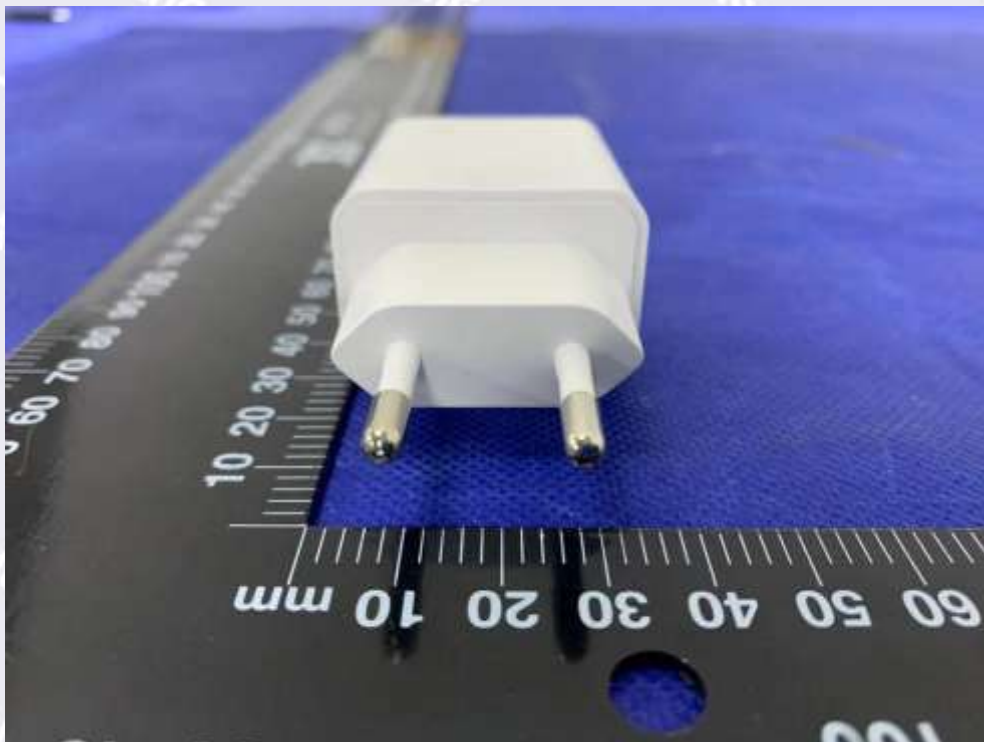


Fig 2 Overview

=====END OF REPORT=====