
ERP Test Report

Report No.: AGC05443260575NS01

PRODUCT DESIGNATION : Charging set in pouch (Adapter)
BRAND NAME : N/A
MODEL NAME : M03177
APPLICANT : MID OCEAN BRANDS B.V.
DATE OF ISSUE : Jul. 15, 2026
STANDARD(S) : (EU) 2019/1782
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd.



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TEST REPORT (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	AGC05443260575NS01
Tested by (+ signature).....	Mody Mo 
Reviewed by (+ signature)	Albert Liang 
Approved by (+ signature)	Michael Yu (Authorized Officer) 
Date of issue	Jul. 15, 2026
Total number of pages	Total 16 pages
Testing Laboratory	
Name	Attestation of Global Compliance (Shenzhen) Co., Ltd.
Address	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China
Testing location / address	Same as above
Applicant	
Name	MID OCEAN BRANDS B.V.
Address	Unit 711- 716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Manufacturer	
Name	MID OCEAN BRANDS B.V.
Address	Unit 711- 716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Factory	
Name	MID OCEAN BRANDS B.V.
Address	Unit 711- 716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.

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Test specification	
Standard.....	(EC) 2019/1782 Test method: EN 50563:2011+A1:2013, 10 CFR 430 Appendix Z
Test procedure.....	EU-Directive
Procedure deviation.....	N/A
Non-standard test method	N/A
Test Report Form/blank test report	
Test Report Form No.....	AGCEU2019/1782A1
TRF originator.....	AGC
Master TRF.....	2019-11
Test item	
Test item description.....	Charging set in pouch (Adapter)
Brand Name.....	N/A
Model/Type reference.....	MO3177
Ratings	Input: AC 110-240V, 50/60Hz, 0.6A Max. Output TYPE-C: 5.0Vdc, 3.0A, 15.0W; 9.0Vdc, 2.22A, 20.0W; 12.0Vdc, 1.67A, 20.0W.
Test item particulars	
Name plate power output (Po).....	20.0W
Declared No-load power consumption.....	0.099W
Declared average active efficiency.....	85.40%
Declared efficiency at load 10%.....	N/A
Type of power supply.....	☐ Multiple-voltage external power supply ☒ Adaptive single-voltage external power supply
Possible test case verdicts	
Test case does not apply to the test object :	N (/A)
Test object does meet the requirement	P (ass)
Test object does not meet the requirement :	F (ail)
Attachments	
Attachment A	Photos of product
Testing	
Date of receipt of test item	May 27, 2026
Date(s) of performance of tests	May 27, 2026 – Jul. 13, 2026

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General remarks

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.
"(See Enclosure #)" refers to additional information appended to the report.
"(See appended table)" refers to a table appended to the report.

Report Revise Record:				
Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 15, 2026	Valid	Initial release

Summary of testing

The product meets the stage 1 of (EU) 2019/1782 Annex II

	Stage 1
Start Date	01.Apr., 2020

Copy of Marking Plate

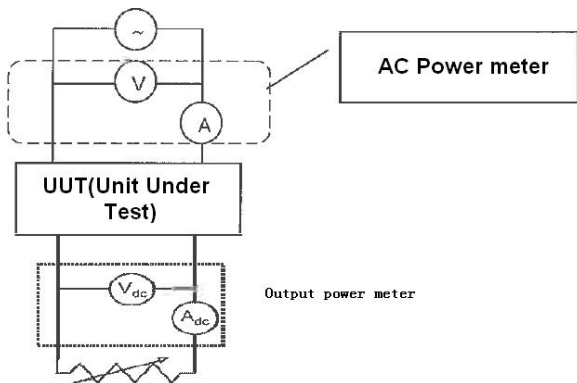
Input:AC110-240V 50/60Hz 0.6A Max
Output TYPE-C:5.0V=3.0A 15.0W,9.0V=2.22A 20.0W,
12.0V=1.67A 20.0W
MOB/MO3177
PO BOX 644,
6710BP(NL)
PO:41-XXXXXX
Made in China

www.momannual.com

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Section	Requirement + Test	Result - Remark	Verdict
0	General		P
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
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: 230.0V Frequency: 50Hz 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		--
	- Test circuit acc. To Fig.1 is used		P
	 Fig.1 Test circuit		

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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><tr><td></td><td>AC-AC external power supplies, except low voltage and multiple voltage output external power supplies</td><td>AC-DC external power supplies, except low voltage and multiple voltage output external power supplies</td><td>Low voltage external power supplies</td><td>Multiple voltage output external power supplies</td></tr><tr><td>P_O ≤ 49,0 W</td><td>0,21 W</td><td>0,10 W</td><td>0,10 W</td><td>0,30 W</td></tr><tr><td>P_O > 49,0 W</td><td>0,21 W</td><td>0,21 W</td><td>0,21 W</td><td>0,30 W</td></tr></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 ≤ 49,0 W	0,21 W	0,10 W	0,10 W	0,30 W	P _O > 49,0 W	0,21 W	0,21 W	0,21 W	0,30 W	See table 1	P					
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(b)	From 1 April 2020, the average active efficiency shall be not less than the following values:		P																				
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2.	Information requirements:		P																				
(a)	from 1 April 2020, the nameplate shall include the following information:		P																				
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(b)	from 1 April 2020, instruction manuals for end-users (where applicable), and free access websites of manufacturers, importers or authorized representatives shall include		P																				

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Section	Requirement + Test	Result - Remark	Verdict																	
	<table><tr><td colspan="2">Percentage of nameplate output current</td></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			
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(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																	
	<table><tr><th>Reported Quantity</th><th>Description</th></tr><tr><td>Root mean square output current (mA)</td><td rowspan="3">Measured at load conditions 1-5</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 1-6</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 1-5, measured at load condition 6</td></tr><tr><td>Active mode efficiency</td><td>Calculated at load conditions 1-5</td></tr><tr><td>Average active efficiency</td><td>Arithmetical mean of efficiency at load conditions 1-4</td></tr></table>	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		P
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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																	

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Section	Requirement + Test	Result - Remark	Verdict
	The relevant load conditions are set out in point 2(b).		N

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Table 1: Measurement and calculation						P
Test Item	Measure at load condition (Percentage of nameplate output current)					
	100%	75%	50%	25%	10%	0%
Rated Output (TYPE-C): 12VDC,1.67A						
Output current (mA)	1670	1252.5	835	417.5	167	0
Output voltage (V)	11.911	11.939	11.964	11.992	12.007	--
Active output power (W)	19.89	14.95	9.99	5.01	2.00	--
Input voltage (V)	230	230	230	230	230	230
Input current (A)	0.2554	0.2125	0.1603	0.0970	0.0489	--
Input power (W)	22.07	16.56	11.11	5.67	2.32	0.099
THD (current) (%)	96.369	97.062	97.799	99.279	105.02	--
THD (voltage) (%)	0.441	0.485	0.489	0.496	0.516	--
True power factor	0.3750	0.3381	0.3008	0.2538	0.2058	--
Power Consumed (W)	2.18	1.61	1.12	0.66	0.32	0.099
Active mode Efficiency (%)	90.12%	90.28%	89.92%	88.36%	86.21%	--
Average active Efficiency (%)	89.67%				--	--
Supplementary information: - * 10% load test only for external power supply with a name plate output power great than 10W						
Test results summary						P
Rated Output	No Load Power Consumption (W)		Average Active Efficiency (%)		Verdict	
	Measure	Limit	Measure	Limit		
TYPE-C: 12.0VDC, 1.67A	0.099	0.1	89.67	85.5	P	

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Table 2: Measurement and calculation						P
Test Item	Measure at load condition (Percentage of nameplate output current)					
	100%	75%	50%	25%	10%	0%
Rated Output (TYPE-C): 5.0VDC, 3.0A						
Output current (mA)	3000	2250	1500	750	300	0
Output voltage (V)	5.1140	5.1016	5.0891	5.0761	5.0676	--
Active output power (W)	15.34	11.48	7.64	3.80	1.52	--
Input voltage (V)	230	230	230	230	230	230
Input current (A)	0.2286	0.1841	0.1359	0.0796	0.0411	--
Input power (W)	18.36	13.42	8.83	4.42	1.86	0.099
THD (current) (%)	96.792	97.439	98.042	100.15	104.28	--
THD (voltage) (%)	0.481	0.486	0.488	0.512	0.513	
True power factor	0.3483	0.3160	0.2818	0.2409	0.1964	--
Power Consumed (W)	3.02	1.94	1.19	0.62	0.34	0.099
Active mode Efficiency (%)	83.55%	85.54%	86.52%	85.97%	81.72%	--
Average active Efficiency (%)	85.40				--	--
Supplementary information: - * 10% load test only for external power supply with a name plate output power great than 10W						
Test results summary						P
Rated Output	No Load Power Consumption (W)		Average Active Efficiency (%)		Verdict	
	Measure	Limit	Measure	Limit		
TYPE-C: 5Vdc/3.0A	0.099	0.1	85.40	81.4	P	

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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 voltage	100-240	V	Specified by the manufacturer. Shall be a value or a range.
Input AC frequency	50/60	Hz	Specified by the manufacturer. Shall be a value or a range.
Output voltage	5V, 9V, 12V	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	3.0A, 2.22A, 1.67A	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	15.0W, 20.0W, 20.0W	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	85.40	%	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

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			declared for the lowest output voltage.
Efficiency at low load (10 %)	81.72%	%	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	0.099	W	Declared by the manufacturer based on the value measured for load condition 6.

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LIST OF TEST EQUIPMENT USED:

Equipment list			
Equipment	Equipment No.	Model	Last cal. date
Digital Power Meter	AGC-SA-E290	WT310E	2026.05.19
Electronic Loading	AGC-SA-E347	3300G	2026.05.19
Temperature & humidity recorder	AGC-SA-E430	ETH529	2025.10.30
Anemometer	AGC-SA-E135	AVM-01	2025.10.29

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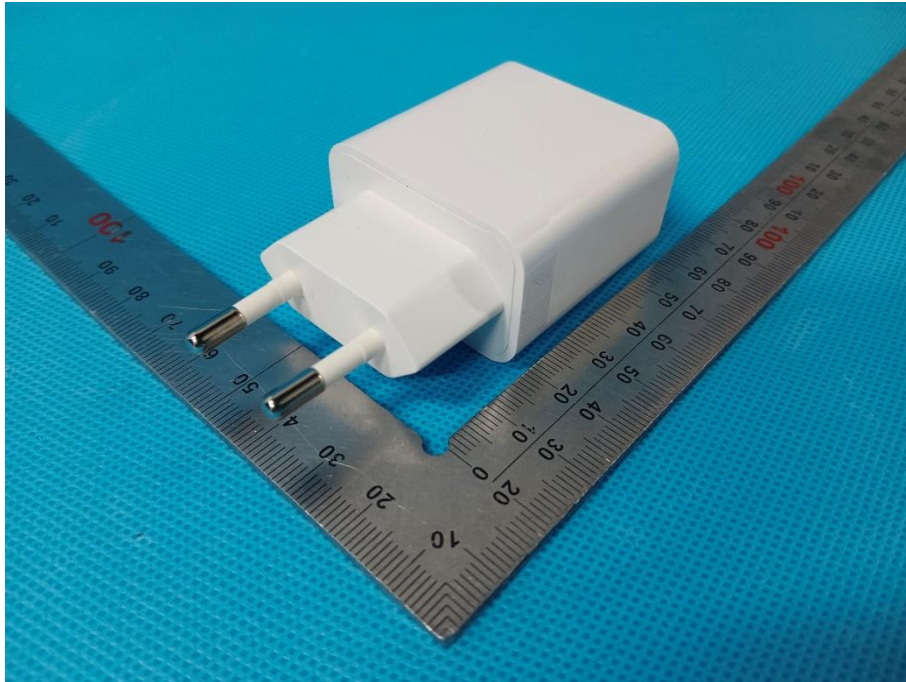
Attachment A
Photos of product

Fig.1—Overview

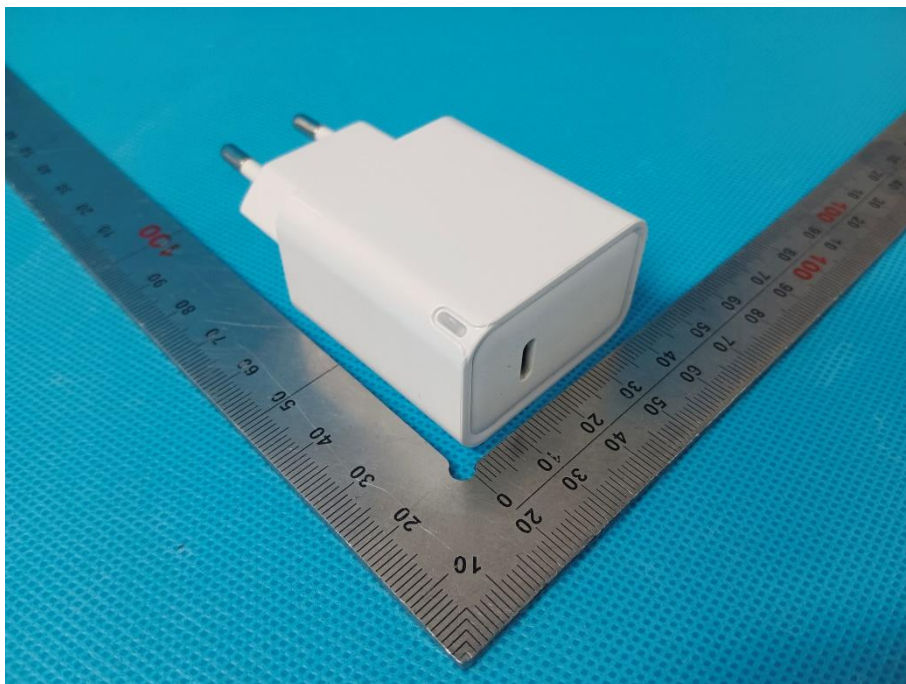


Fig.2 —Overview

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2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

-----END OF REPORT-----

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