

Test Report

Report No. MTi250120003-0103E2

Date of Issue 2025-02-20

Applicant DONGGUAN GCELL ELECTRONICS CO LTD

Product Compact 10000mAh Mag Safe Compatible PD

Power Bank With LCD Display

Model(s) . C10PB-12/24, 655044, GC-51B

FCC ID 2BBTQ-655044

Shenzhen Microtest Co., Ltd.



Report No.: MTi250120003-0103E2

Table of contents

1 General Description		
1.1 Description of the EUT		
1.2 Description of test modes		
1.3 Description of support units		
2 Measurement uncertainty		
3 Test facilities and accreditations		
3.1 Test laboratory		
4 List of test equipment		
5 Test result		
5.2 Test setup		
5.3 Test Procedures 5.4 Information of test equipment 5.4 Information 5.4 In		
5.5 Test results		
Photographs of the Test Setup		15
Photographs of the EUT		
Photographs of the EUT		
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Report No.: MTi250120003-0103E2

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Test Result Certific	eation	-MCIOLE	
Applicant	DONGGUAN GCELL ELECTRONICS C	O LTD	
Applicant Address	No.6.No.1 LongJiang Road,XieKeng,Qir province, P. R. Guangdong, China	ngxi town,Dongguan city, Guangdong	
Manufacturer	DONGGUAN GCELL ELECTRONICS CO.,LIMITED		
Manufacturer Address	No.6.No.1 LongJiang Road,XieKeng,Qir province, P. R. Guangdong, China	ngxi town,Dongguan city, Guangdong	
Factory	DONGGUAN GCELL ELECTRONICS C	CO.,LIMITED	
Factory Address	No.6.No.1 LongJiang Road,XieKeng,Qir province, P. R. Guangdong, China	ngxi town,Dongguan city, Guangdong	
Product descriptio	Micro		
Product name	Compact 10000mAh Mag Safe Compati	ble PD Power Bank With LCD Display	
Trademark	Energboost, ionix	· crotest	
Model name	C10PB-12/24		
Series Model(s)	655044, GC-51B	gt a	
Standards	FCC CFR 47 PART 1, § 1.1310 part2.1093	:: (Otes	
Test method	KDB 680106 D01 Wireless Power Transfer v04		
Testing Information	n test		
Date of test	2025-02-07 to 2025-02-10	iest iid	
Test Result	Pass		
Prepared by	James Qin	James arn	
Reviewed by	David Lee	Devoid. Cel	
Approved by	Leon Chen	leon chen	

Report No.: MTi250120003-0103E2

1 General Description

1.1 Description of the EUT

Product name:	Compact 10000mAh Mag Safe Compatible PD Power Bank With LCD Display	
Model name:	C10PB-12/24	
Series Model:	655044, GC-51B	
Model difference:	All the models are the same circuit and module, except the model name.	
Electrical rating:	Capacity: 10000mAh 3.85V/ 38.5Wh Type- C 1 Input: DC 5V/ 2A, 9V/ 2A, 12V/ 1.5A Type-C 2 Input: DC 5V/ 2.8A, 9V/ 2A, 12V/ 1.5A Type-C 2 Output: DC 5V/ 3A, 9V/ 2.22A, 12V/ 1,67A USB-A Output: DC 5V/ 3A, 9V/ 2A, 10V/ 2.25A, 12V/ 1.5A Wireless Output: 5W/ 7.5W/ 10W/ 15W USB-A+Type-C Output: DC 5V/ 3A	
Accessories:	N/A	
Hardware version:	V5.2	
Software version:	V1.6	
Test sample(s) number:	MTi250120003-01-R001	
RF specification:		
Operation frequency:	115-205kHz	
Modulation type:	ASK	
Antenna type:	Coil Antenna	

Report No.: MTi250120003-0103E2

1.2 Description of test modes

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

No.	Emission test modes	
Mode1	Charging Type-C 1+Wireless Output(5W)	
Mode2	Charging Type-C 2+Wireless Output(5W)	
Mode3	Wireless Output(5W)	
Mode4	Wireless Output(7.5W)	
Mode5	Wireless Output(10W)	
Mode6	Wireless Output(15W)	
Mode7	Stand by	

1.3 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list				
Description	Model	Serial No.	Manufacturer	
HUAWEI QUICK CHARGE	HW-200200ZP1	JN67LSN7N03451	HUAWEI	
Moible Phone	Find X3	/	OPPO	
Support cable list				
Description	Length (m)	From	То	
/	/	/	/	

Report No.: MTi250120003-0103E2

2 Measurement uncertainty

Parameter	Expanded Uncertainty
Magnetic field measurements(3kHz~10MHz)	±14.8%
Electric field measurements(3kHz~10MHz)	±17.5%

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3 Test facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.		
Test site location:	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinho Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong China		
Telephone:	(86-755)88850135		
Fax:	(86-755)88850136		
CNAS Registration No.:	CNAS L5868		
FCC Registration No.:	448573		

Report No.: MTi250120003-0103E2

4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTI-E143	Near-field Electric and Magnetic Field Sensor System	SPEAG	MAGPy-8H3 D+ED3	3101	2024/3/12	2027/3/11

No.	Equipment	Manufacturer	Model	Software version:	Cal. date	Cal. Due
MTI-E016S	MPE test software	SPEAG	MAGPY 2.6	2.6	/	/

Report No.: MTi250120003-0103E2

5 Test result

5.1.1 Requirement

§1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

Table 1 to §1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)			
	(i) Limits for Occupational/Controlled Exposure						
0.3-3.0	614	1.63	*(100)	≤6			
3.0-30	1842/f	4.89/f	*(900/f ²)	<6			
30-300	61.4	0.163	1.0	<6			
300-1500			f/300	<6			
1500-100000			5	<6			
	(ii) Limits for General	Population/Uncontrolled	d Exposure				
0.3-1.34	614	1.63	*(100)	<30			
1.34-30	824/f	2.19/f	*(180/f ²)	<30			
30-300	27.5	0.073	0.2	<30			
300-1500			f/1500	<30			
1500-100000			1.0	<30			

f = frequency in MHz

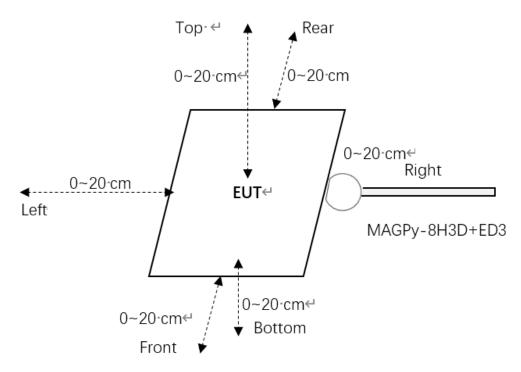
Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Note 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

^{* =} Plane-wave equivalent power density

Report No.: MTi250120003-0103E2

5.2 Test setup



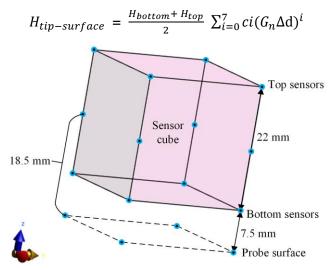
Note: tips mode of the test probe is used for 0cm measurement.

5.3 Test Procedures

a. H-field measurements should be taken 0 cm \sim 20 cm with 2 cm increments from the center of the probe.

The center of the probe to the tip surface of the probe is 18.5 mm, so the directly testing can be performed at the probe center from 2 cm to 20 cm.

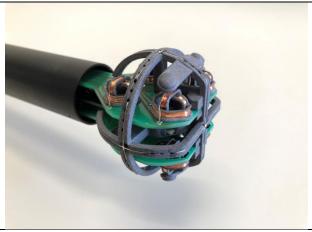
To measure the 0 cm H-filed, the probe tip mode is used. The total H-field at the tip-surface $H_{tip-surface}$ can be extrapolated using the total H-field measured at the top and bottom sensors, H_{top} and H_{bottom} , as well as the normalized H-field gradient G_n . The field extrapolation formula is a polynomial function of G_n ($\Delta d = 18.5$ mm)



Report No.: MTi250120003-0103E2

5.4 Information of test equipment

Test equipment: MAGPy-8H3D+ED3	3
Diameter	60mm
8 isotropic H-field sensors	Concentric loops of 1cm ² arranged at the corner of a cube of 22mm side length
1 isotropic E-field sensor	Orthogonal dipole/monopple(arm length:50mm)
Measurement center	18.5mm from the probe tip
Dimensions	110*635*35mm (MAGPy-8H3D+E3D V2 & MAGPy-DAS V2)



Test probe, without the casing

Item	Specification
Test frequency range:	3kHz ~ 10MHz
Probe sensitivity	E-filed: 0.08-2000 V/m
Flobe sensitivity	H-filed: 0.1-3200 A/m
Probe level response	E-filed: ±1dB
Flobe level response	H-field: ±1dB
linearity error	E-filed: ±0.3dB
linearity error	H-field: ± 0.3 dB
lastrony	E-filed: ±0.8dB
Isotropy	H-field: ±0.6dB

Report No.: MTi250120003-0103E2

5.5 Test results

All client power has been assessed (1%,50%, 99%), and the 1% battery status of client device was the worst.

Test condition 1: Mode6 operating mode with client device (1 % battery status of client device)

-estimated value: 0cm

Estimated value for H-Filed Strength at 0 cm from the edges surrounding the EUT (A/m)

Probe Position	H–field (A/m)		
1 Tobe T dollion	Measurement	Limit	Percentage (%)
Z axis	1.48	1.63	90.80%
Left	1.32		
Right	1.25		
Front	1.02		
Rear	0.97		
Bottom	0.28		

Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)

- Test distance: 2cm

Probe Position	H–field (A/m)		
1 TODE T OSITION	Measurement	Limit	Percentage (%)
Z axis	1.42		
Left	1.26		86.89%
Right	1.20	4.62	
Front	0.98	1.63	
Rear	0.93		
Bottom	0.27		

Report No.: MTi250120003-0103E2

Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)

- Test distance: 4cm

Probe Position	H-field (A/m)		
Trobe resident	Measurement	Limit	Percentage (%)
Z axis	1.30		
Left	1.16		
Right	1.09	1.63	70.520/
Front	0.89	1.63	79.53%
Rear	0.85		
Bottom	0.25		

Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)

- Test distance: 6cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	1.16		
Left	1.04		
Right	0.98	4.00	71.37%
Front	0.80	1.63	
Rear	0.76		
Bottom	0.22		

Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)

- Test distance: 8cm

Probe Position		H–field (A/m)		
1 Tobe I osition	Measurement	Limit	Percentage (%)	
Z axis	0.96		58.64%	
Left	0.85			
Right	0.81	4.00		
Front	0.66	1.63		
Rear	0.63			
Bottom	0.18			

Report No.: MTi250120003-0103E2

Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)

- Test distance: 10cm

Probe Position		H–field (A/m)		
1 Tobe 1 osition	Measurement	Limit	Percentage (%)	
Z axis	0.75		46.05%	
Left	0.67			
Right	0.63	1.63		
Front	0.52			
Rear	0.49			
Bottom	0.14			

Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)
- Test distance: 12cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.56		34.15%
Left	0.50		
Right	0.47	4.62	
Front	0.38	1.63	
Rear	0.36		
Bottom	0.11		

Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)

- Test distance: 14cm

Probe Position —	H–field (A/m)		
1 Tobe I osition	Measurement	Limit	Percentage (%)
Z axis	0.41		25.45%
Left	0.37		
Right	0.35	1.63	
Front	0.29	1.03	
Rear	0.27		
Bottom	0.08		

Report No.: MTi250120003-0103E2

Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)

- Test distance: 16cm

Probe Position	H–field (A/m)		
1 TODE T OSITION	Measurement	Limit	Percentage (%)
Z axis	0.27		
Left	0.24		16.66%
Right	0.23	1.63	
Front	0.19		
Rear	0.18		
Bottom	0.05		

Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)
- Test distance: 18cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.14		8.69%
Left	0.13		
Right	0.12	1.62	
Front	0.10	1.63	
Rear	0.09		
Bottom	0.03		

Test condition 2: Mode6 operating mode with client device (1 % battery status of client device)

- Test distance: 20cm

Probe Position	H–field (A/m)		
1 Tobe 1 Osition	Measurement	Limit	Percentage (%)
Z axis	0.05		3.10%
Left	0.05		
Right	0.04	1.63	
Front	0.03		
Rear	0.03		
Bottom	0.01		

Report No.: MTi250120003-0103E2

Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

Report No.: MTi250120003-0103E2

Statement

- 1. This report is invalid without the seal and signature of the laboratory.
- 2. The test results of this report are only responsible for the samples submitted. Client shall be responsible for representativeness of the sample and authenticity of the material.
- 3. The report shall not be partially reproduced without the written consent of the Laboratory.
- 4. This report is invalid if transferred, altered or tampered with in any form without authorization.
- 5. The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.
- 6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

***** END OF REPORT *****