

**TEST REPORT
RADIO FREQUENCY
FOR WIRELESS POWER TRANSFER**

Report Number.....: ITA26B06001066W 002

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Standard/According to KDB 680106 D01 Wireless Power Transfer v04

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Applicant's name Shenzhen Mgctech Co., Ltd.

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Manufacturer's name.....: Shenzhen Mgctech Co., Ltd.

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Factory's name Same as manufacturer

Address Same as manufacturer

Trade Mark.....: N/A

Product description.....: Wireless Power Bank

Model/Type reference T100D

Ratings.....: Input: USB-C Cable/ USB-C: 5Vdc, 3A; 9Vdc, 3A; 12Vdc, 2.5A; 15Vdc, 2A (30W);
Output: USB-C Cable/ USB-C: 5Vdc, 3A; 9Vdc, 3A; 12Vdc, 2.92A; 15Vdc, 2.33A; 20Vdc, 1.75A (35W);
Wireless Charging Output: 25W (Max);
Combined Output: 5Vdc, 3A;
Battery Capacity: 38.5Wh (7.7Vdc, 5000mAh)
Capacity:10000mAh (5000mAh*2)

FCC ID.....: 2AVSB-T100D

Test result.....: **Pass**

Declare:

1. This report shall not be partially reproduced without the consent of the laboratory.
2. If the report without tester's signature, auditor's signature, approver's signature and inspection seal, the report is invalid.
3. The test results are valid only for the tested samples.
4. After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.
5. If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.

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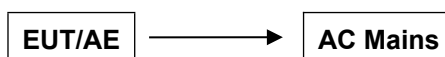
1. General test information

1.1. Description of EUT

Details of technical specification refer to the description in follows:

Test model number	T100D
Model different	/
Frequency range (Hz)	110.1K-205K, 360K
Modulation technique	ASK
Antenna type	Coil Antenna
Antenna gain	0 dBi
Temperature range (°C)	0 ~ 40
Hardware version	V1.0
Software version	V1.0

Block diagram EUT configuration for test



1.2. Test modes

Mode	Test Status
1	Mobile phone charging mode for output 5W (110.1k-205kHz)
2	Mobile phone charging mode for output 7.5W (110.1k-205kHz)
3	Mobile phone charging mode for output 10W (110.1k-205kHz)
4	Mobile phone charging mode for output 15W (360kHz)
5	Mobile phone charging mode for output 25W (360kHz)
6	Battery supply + USB-C output 20Vdc 1.75A
7	Battery supply + USB-C output 15Vdc 2.33A
8	Battery supply + USB-C output 12Vdc 2.92A
9	Battery supply + USB-C output 9Vdc 3A
10	Battery supply + USB-C output 5Vdc 3A
11	AC main + USB-C input 15Vdc 2A
12	AC main + USB-C input 12Vdc 2.5A
13	AC main + USB-C input 9Vdc 3A
14	AC main + USB-C input 5Vdc 3A

Worst case statement:

The aforementioned testing modes were all conducted under Battery Status: $\leq 1\%$ (full load), Battery Status: $\approx 50\%$ (half load), and Battery Status: $\geq 99\%$ (no load) conditions.

After testing, it was found that the test data under full load condition is the worst-case.

The report reflecting only the worst-case test data.

Remark:

The equipment cannot support both wireless and wired load-bearing simultaneously.

1.3. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range (°C)	15-35
Humidity range (%)	30-75
Pressure range (kPa)	85-105

1.4. Test environment conditions

Item	Equipment	Mfr/Brand	Model / Type	Series No.	Note
1	Load	Apple	Iphone 17	--	Wireless charging of phone: 5W, 7.5W, 15W, 25W
2	Load	Apple	AirPods	--	Wireless charging of earbuds: 2.5W, 5W
3	Load	Apple	Apple Watch Series 10	--	Wireless charging of watch: Max. 5W
4	Load	YBT	P V3.1-Qi2.2/MPP	--	Wireless charging of phone: 5W, 7.5W, 10W, 15W, 25W
5	Load	YBT	E V1.0	--	Wireless charging of earbuds: 2.5W, 3W, 5W
6	Load	YBT	W V2.04	--	Wireless charging of watch: Max. 5W
Remark:					

2. RF exposure test**2.1 Measuring standard**

KDB 680106 D01 Wireless Power Transfer v04

47 CFR Part 2.1093

2.2 Measurement uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	E-field	$\pm 0.97\%$
2	H-field	$\pm 0.74\%$
3	Temperature	$\pm 0.5^\circ\text{C}$
4	Humidity	$\pm 2\%$

Decision Rule☒ Uncertainty is not included☐ Uncertainty is included**2.3 Test procedure**

The RF exposure test was performed in anechoic chamber.

The measurement probe was placed at test distance (0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20 cm from all sides and 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20 cm from the top) which is between the edge of the charger and the geometric center of probe.

The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.

The EUT was measured according to the dictates of KDB 680106 D01 v04.

Remark: The EUT's test position A, B, C, D and E is valid for the H field measurements.

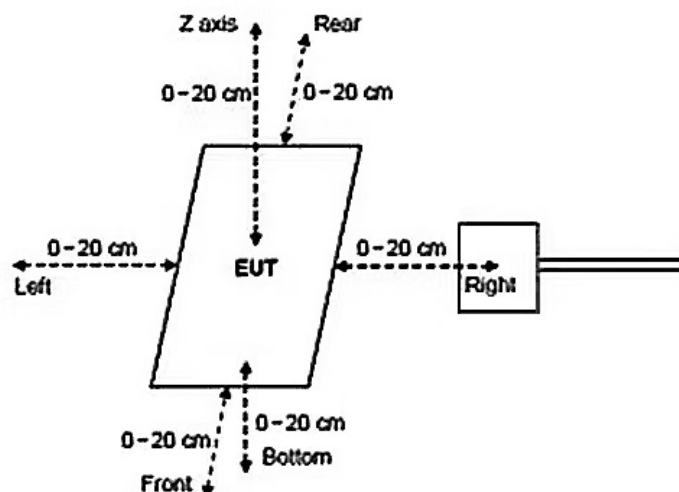
2.4 Limits

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)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled 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
1500-100,000	/	/	1.0	30

F=frequency in MHz
 *Plane-wave equivalent power density
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

2.5 Test setup

2.6 Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Near-field Electric and Electric Field Sensor System	Schmid & Partner Engineering AG	MAGPy-8H3D + E3D V2	3127	2026-09-08
2	Near-field Electric and Electric Field Sensor System	Schmid & Partner Engineering AG	MAGPy-DASV2	3121	2026-09-08
3	Near-field Electric and Electric Field Sensor System	Narda	EHP-400	4772	2026-09-08

2.7 Test result

Test Mode	5	Remark	/			Result	PASS
H-Filed Strength at 20 cm from the edges surrounding the EUT							
Top (A/m)	Bottom (A/m)	Left (A/m)	Right (A/m)	Front (A/m)	Rear (A/m)	50% Limits (A/m)	Limits (A/m)
0.03	0.03	0.03	0.03	0.04	0.01	0.815	1.63

Test Mode	5	Remark	/			Result	PASS
H-Filed Strength at 18 cm from the edges surrounding the EUT							
Top (A/m)	Bottom (A/m)	Left (A/m)	Right (A/m)	Front (A/m)	Rear (A/m)	50% Limits (A/m)	Limits (A/m)
0.04	0.03	0.03	0.03	0.04	0.01	0.815	1.63

Test Mode	5	Remark	/			Result	PASS
H-Filed Strength at 16 cm from the edges surrounding the EUT							
Top (A/m)	Bottom (A/m)	Left (A/m)	Right (A/m)	Front (A/m)	Rear (A/m)	50% Limits (A/m)	Limits (A/m)
0.04	0.04	0.04	0.04	0.04	0.01	0.815	1.63

Test Mode	5	Remark	/			Result	PASS
H-Filed Strength at 14 cm from the edges surrounding the EUT							
Top (A/m)	Bottom (A/m)	Left (A/m)	Right (A/m)	Front (A/m)	Rear (A/m)	50% Limits (A/m)	Limits (A/m)
0.05	0.05	0.06	0.06	0.05	0.02	0.815	1.63

Test Mode	5	Remark	/	Result	PASS
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H-Filed Strength at 12 cm from the edges surrounding the EUT							
Top (A/m)	Bottom (A/m)	Left (A/m)	Right (A/m)	Front (A/m)	Rear (A/m)	50% Limits (A/m)	Limits (A/m)
0.07	0.07	0.08	0.07	0.07	0.02	0.815	1.63

Test Mode	5	Remark	/			Result	PASS
H-Filed Strength at 10 cm from the edges surrounding the EUT							
Top (A/m)	Bottom (A/m)	Left (A/m)	Right (A/m)	Front (A/m)	Rear (A/m)	50% Limits (A/m)	Limits (A/m)
0.10	0.09	0.12	0.09	0.09	0.03	0.815	1.63

Test Mode	5	Remark	/			Result	PASS
H-Filed Strength at 8 cm from the edges surrounding the EUT							
Top (A/m)	Bottom (A/m)	Left (A/m)	Right (A/m)	Front (A/m)	Rear (A/m)	50% Limits (A/m)	Limits (A/m)
0.14	0.12	0.16	0.12	0.14	0.04	0.815	1.63

Test Mode	5	Remark	/			Result	PASS
H-Filed Strength at 6 cm from the edges surrounding the EUT							
Top (A/m)	Bottom (A/m)	Left (A/m)	Right (A/m)	Front (A/m)	Rear (A/m)	50% Limits (A/m)	Limits (A/m)
0.21	0.18	0.21	0.15	0.20	0.06	0.815	1.63

Test Mode	5	Remark	/			Result	PASS
H-Filed Strength at 4 cm from the edges surrounding the EUT							
Top (A/m)	Bottom (A/m)	Left (A/m)	Right (A/m)	Front (A/m)	Rear (A/m)	50% Limits (A/m)	Limits (A/m)
0.28	0.28	0.30	0.23	0.30	0.08	0.815	1.63

Test Mode	5	Remark	/			Result	PASS
H-Filed Strength at 2 cm from the edges surrounding the EUT							
Top (A/m)	Bottom (A/m)	Left (A/m)	Right (A/m)	Front (A/m)	Rear (A/m)	50% Limits (A/m)	Limits (A/m)
0.40	0.39	0.45	0.34	0.42	0.12	0.815	1.63

Test Mode	5	Remark	/	Result	PASS
H-Filed Strength at 0 cm from the edges surrounding the EUT					

Top (A/m)	Bottom (A/m)	Left (A/m)	Right (A/m)	Front (A/m)	Rear (A/m)	50% Limits (A/m)	Limits (A/m)
0.57	0.54	0.62	0.50	0.62	0.18	0.815	1.63