

RF EXPOSURE Test Report

Report No.: MTi231009008-01E2

Date of issue:

2023-11-28

Applicant: Shenzhen Baseus Technology Co., Ltd.

Product: 120V Digital Power Bank 600W

Model(s): BPM600B

FCC ID: 2A482-BPM600B

Shenzhen Microtest Co., Ltd. http://www.mtitest.com

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Test Result Certification					
Applicant:	Shenzhen Baseus Technology Co., Ltd.				
Address:	2nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen.				
Manufacturer:	Shenzhen Baseus Technology Co., Ltd.				
Address:	2nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen.				
Factory:	Dongguan OPAQI Electronic Technology Co., Ltd.				
Address:	No.2 Of Xifu Road, HongYeBeiLu, LinCun, Tangxia Town, DongGuan, GuangDong, China.				
Product description					
Product name:	120V Digital Power Bank 600W				
Trademark:	baseus				
Model name:	BPM600B				
Series Model:	N/A				
Standards:	N/A				
Test procedure:	KDB 447498 D01 v06				
Date of Test					
Date of test:	2023-10-16 to 2023-11-24				
Test result:	Pass				

Test Engineer	:	Yanice Xie		
		(Yanice.Xie)		
Reviewed By	:	leor chen		
		(Leon Chen)		
Approved By	:	Tom Xue		
		(Tom Xue)		

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RF EXPOSURE EVALUATION

According to FCC 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)

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 C	ccupational/Controlled Exp	osure		
0.3-3.0	614	1.63	*100	6	
3.0-30	1842/	f 4.89/1	*900/f ²	: 6	
30-300	61.4	0.163	1.0	6	
300-1,500			f/300	6	
1,500-100,000			5	6	
	(B) Limits for Gene	ral Population/Uncontrolled	Exposure		
0.3-1.34	614	1.63	*100	30	
1.34-30	824/	f 2.19/1	*180/f ²	30	
30-300	27.5	0.073	0.2	30	
300-1,500			f/1500	30	
1,500-100,000			1.0	30	

f = frequency in MHz * = Plane-wave equivalent power density

MPE Calculation Method

Friis transmission formula: Pd= (Pout*G)\ (4*pi*R2)

Where

Pd= Power density in mW/cm²

Pout=output power to antenna in mW

G= Numeric gain of the antenna relative to isotropic antenna

Pi=3.1415926

R= distance between observation point and center of the radiator in cm(20cm)

Pd the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

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Measurement Result

BLE:

Operation Frequency: 2402-2480MHz,

Power density limited: 1mW/ cm²

Antenna gain: -0.58 dBi

R=20cm

 $mW=10^{dBm/10}$

Antenna gain Numeric=10^(dBi/10)= 10^(-0.58/10)=0.87

BLE:

Channel Freq. m (MHz)	modulation	conducted power	Tune-up	Max		Antenna		Evaluation result	Power density Limits
		(dBm)	power (dBm)	tune-up power		Gain		(ma\A1/ama2)	(20) (1/2/2)
				(dBm)	(mW)	(dBi)	Numeric	(mW/cm ²)	(mW/cm ²)
2402		0.35	0±1	1	1.259	-0.58	0.87	0.0002	1
2440	BLE-1M	0.29	0±1	1	1.259	-0.58	0.87	0.0002	1
2480	0.4	0±1	1	1.259	-0.58	0.87	0.0002	1	

Conclusion:

For the max result: 0.0002≤ 1.0 SAR test exclusion threshold, No SAR is required.

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