



MPE Report

Report No.:STS2602319H01

Issued for

Shenzhen BIQU Innovation Technology Co., Ltd.

1508, Building T1, Lijincheng Center Yousong Community,
Longhua Subdistrict, Longhua District, Shenzhen Guangdong
Province, China

Product Name: Panda PWR

Brand Name: N/A

Model Name: BIQU Panda PWR

Series Model(s): BIQU Panda PWR V2, Creality Creator
PWR, Creality Creator PWR V2, BIQU
Panda PWR V3, BIGTREETECH Creator
PWR, BIGTREETECH Creator PWR V2,
BIQU Pop PWR, BIQU Cubic PWR, BIQU
PWR Go

FCC ID: 2BAS6-PANDAPWRV1

Test Standard: FCC 47CFR §2.1091

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 ShenZhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name: Shenzhen BIQU Innovation Technology Co., Ltd.
Address: 1508, Building T1, Lijincheng Center Yousong Community, Longhua Subdistrict, Longhua District, Shenzhen Guangdong Province, China.
Manufacturer's Name: Shenzhen BIQU Innovation Technology Co., Ltd.
Address: 1508, Building T1, Lijincheng Center Yousong Community, Longhua Subdistrict, Longhua District, Shenzhen Guangdong Province, China.

Product Description

Product Name: Panda PWR
Brand Name: N/A
Model Name: BIQU Panda PWR
BIQU Panda PWR V2, Creality Creator PWR, Creality Creator PWR V2, BIQU Panda PWR V3, BIGTREETECH Creator PWR, BIGTREETECH Creator PWR V2, BIQU Pop PWR, BIQU Cubic PWR, BIQU PWR Go
Series Model(s):

Test Standards: FCC 47CFR §2.1091
447498 D01 Interim General RF Exposure Guidance v06

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Date of Test

Date of receipt of test item: 21 Jan. 2026
Date (s) of performance of tests: 21 Jan. 2026 ~ 05 Feb. 2026
Date of Issue: 28 Apr. 2026
Test Result: **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

Skylar Li

(Skylar Li)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	28 Apr. 2026	STS2602319H01	ALL	Initial Issue



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Panda PWR	
Brand Name	N/A	
Model Name	BIQU Panda PWR	
Series Model(s)	BIQU Panda PWR V2, Creality Creator PWR, Creality Creator PWR V2, BIQU Panda PWR V3, BIGTREETECH Creator PWR, BIGTREETECH Creator PWR V2, BIQU Pop PWR, BIQU Cubic PWR, BIQU PWR Go	
Model Difference	All the model are the same circuit and RF module, except model names.	
Product Description	The EUT is a Panda PWR.	
	Operation Frequency:	802.11b/g/n 20: 2412~2462 MHz
	Modulation Type:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11b/g Support SISO 802.11n Support SISO
	Antenna gain:	1 dBi
	Antenna Designation:	Internal Antenna
Power Rating	Input: AC 100-240V 50/60Hz 3A Type-C Input: DC 5V 1A USB-A1 Output: DC 5V 1.5A USB-A2 Output: DC 5V 1.5A Output: AC 100-240V 50/60Hz 3A	
Adapter	N/A	
Battery	N/A	
Hardware Version	N/A	
Software Version	N/A	

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the 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)
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	F/300
3.0-30	1842/f	4.89/f	*(900/f ²)
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1.34-30	824/f	2.19/f	*(180f ²)
1500 – 100000	--	--	1.0

F= Frequency in MHz

Friss Formula

Friss Transmission Formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = Distance between observation point and the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.



2.3 TEST RESULT

Tune up

Mode	Detector	Tune up Power
802.11b	PK	13±1dBm

Protocol	Fre. (GHz)	Separati on distance (cm)	Max Tune up power (dBm)	ANT Gain (dBi)	Max EIRP (dBm)	Max EIRP (mW)	Power Density (mW/cm ²)	Limit (mW/ cm ²)	Ratio	Result
802.11b	2.462	20	14	1	15	31.62	0.0025	1	0.0025	Pass

Multiple transmission:

Note: 1. The Maximum power is less than the limit, complies with the exemption requirements.

2. ERP = EIRP - 2.15

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