

RF EXPOSURE REPORT

FCC ID: 2BBUS-ES3000-PLUS

Report Reference No. : 24EFSS12035 01941

Date of issue : 2024-03-25

Applicant's name..... : Green Energy Scandinavia A/S

Address..... : Dronningens Gate 22, 0154 Oslo, Norway

Manufacturer : AJ POWER Co.Ltd.

Equipment..... : Blackbox Portable Power Station

Trade Mark..... : N/A

Model : ES3000-PLUS

Ratings..... : DC Input: 58.4V/20A

AC Input: 120V/60Hz

Solar Input: 60~145V

DC Output: 51.2V/40A

AC Output: 3000W / 5000W (peak)

Testing Laboratory : DongGuan ShuoXin Electronic Technology Co., Ltd.

Address..... : Zone A, 1F, No. 6, XinGang Road YuanGang Street,
XinAn District, ChangAn Town, DongGuan City,
GuangDong, China

According : KDB 447498 D04 Interim General RF Exposure Guidance v01

Test Engineer:



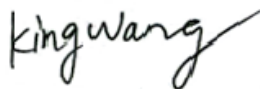
Blue Qiu

Responsible Engineer :



Smile Wang

Authorized Signatory:



King Wang

MPE CALCULATION METHOD:

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

Antenna gain =3.29dBi

MAX Output Power : 0.589dBm@2440MHz

ERP=0.589+3.29-2.15=1.729dBm

WORSE CASE:

$10^{0.1729}=1.489\text{mW} < 3\text{mW}$

Then SAR evaluation is not required

END