



# **FCC RF Exposure Evaluation**

## 1. Product Information

Product name	:	ELECTRIC GOLF PUSH CART
Test Model	:	Axglo e5
Power Supply	:	Input: 29.4V2A
		For AC Adapter Input: 100-240V~, 50/60Hz, 3A
		Adapter Output: 29.4V2A
Hardware Version	:	M3PLUS-RF-V1.21-20221229
Software Version	:	e5: 1.1.7/e3: 1.1.5
Bluetooth		
Frequency Range	:	2402MHz~2480MHz
Channel Number	:	40 channels for Bluetooth V5.0 (DTS)
Channel Spacing	:	2MHz for Bluetooth V5.0 (DTS)
Modulation Type	:	GFSK for Bluetooth V5.0 (DTS)
Bluetooth Version	:	V5.0
Antenna Description	:	PCB Antenna, -1.59dBi(Max.)
UWB		
Frequency Range	:	6240-6739.2MHz
Channel Number	:	1 加股份
Channel Frequency		6489.6MHz
Modulation Type		BPSK
Antenna Description	:	Internal Antenna, 1.98dBi(Max)
RF Output Rating	:	-41dBm/MHz(max)
EUT Type	:	Production Unit
Device Type	:	Mobile Devices







FCC ID: 2BB58-AXGLOE5













#### 2. Evaluation method and Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions 22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc."

FCC ID: 2BB58-AXGLOE5

[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)]  $\cdot [\sqrt{f} (GHz)] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR, where:

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

  The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm
  and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test
  separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to
  determine SAR test exclusion.

When one of the following test exclusion conditions is satisfied for all combinations of simultaneous transmission configurations, further equipment approval is not required to incorporate transmitter modules in host devices that operate in the mixed mobile and portable host platform exposure conditions. The grantee is responsible for documenting this according to Class I permissive change requirements. Antennas that qualify for standalone SAR test exclusion must apply the estimated standalone SAR to determine simultaneous transmission test exclusion.

- a) The [ $\sum$  of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg] + [ $\sum$  of MPE ratios] is  $\leq$  1.0.
- b)The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04, and the [∑ of MPE ratios] is ≤ 1.0.

#### 3. Refer Evaluation Method

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

FCC KDB publication 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1093: Radiofrequency radiation exposure evaluation: portable devices





## 4. Conducted Power Results

FCC ID: 2BB58-AXGLOE5

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Stad Pap	一方河域·河南山	(BT LE)	古洲拉洲 palab
Mada	Channel	Fraguency (NAHz)	Peak Conducted Output Power
Mode	Channel	Frequency (MHz)	(dBm)
	00	2402	-6.12
GFSK	19	2440	-3.87
	39	2480	-5.03

[UWB]

Mode	Frequency(MHz)	Power (dBm)	Average Power(mW)	Limit(mW)
UWB	6489.6	-6.26	0.24	1.00

## 5. Manufacturing Tolerance

[BT LE]

	L-	,				
GFSK(Peak)						
Channel	Channel 00	Channel 19	Channel 39			
Target (dBm)	-6.0	-3.0	-5.0			
Tolerance ± (dB)	1.0	1.0	1.0			

[UWB]

Freque	ency (MHz)	6489.6	
Tar	get (dBm)	-6.0	
Toler	ance ±(dB)	1.0	











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## 6. Evaluation Results

### **6.1 Standalone Evaluation**

[BLE]

FCC ID: 2BB58-AXGLOE5

Dand/Mada	Frequency	quency Antenna		output power	SAR Test	SAR Test
Band/Mode	(ĠHz)	Distance (mm)	dBm	mW	Exclusion Threshold	Exclusion
BT LE	2.440	5	-2	0.6310	0.1971< 3.0	Yes

[UWB]

Band/Mode	Frequency	uency Antenna Distance	RF output power		SAR Test Exclusion	SAR Test
Danu/Mode	(GHz)	(mm)	dBm	mW	Threshold	Exclusion
UWB	6.4896	5	-6.26	0.2366	0.1205< 3.0	Yes

#### Remark:

- 1. Output power including tune up tolerance;
- 2. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section
- 4.1 is applied to determine SAR test exclusion.

#### 6.2 Simultaneous Transmission for SAR Exclusion

Power is too low, Simultaneous Transmission was exempt from SAR test.

## 7. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

THE END	OF REPORT
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