

RF EXPOSURE REPORT

FCC Applicant: SUPER POWER TOOLS CO., LTD.
NO.62, LN. 5, SHENAN ST., SHENGANG DIST. TAICHUNG
CITY, TAIWAN 42944

Product Name: Transmitter for Remote Control Starter Switch

Brand Name: O'SKOO

Model No.: PTA09-A

Report Number: TESA2206000177ES

FCC ID 2A7E6PTA2201

Issue Date: Jul. 22, 2022

Date of EUT Received: This report is only calculated based on the test results, there will be no date of EUT received.

Approved By John Yeh

John Yeh

We hereby certify that:

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1093.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History					
Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2206000177ES	00	Original	Jul. 08, 2022	Kimmy Chiou	*
TESA2206000177ES	01	Modify comment	Jul. 22, 2022	Kimmy Chiou	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	Transmitter for Remote Control Starter Switch
Brand Name:	O'SKOOOL
Model No.:	PTA09-A
EUT Series No.:	PTA09-A0002
Power Supply:	3Vdc

1.2 Reference Test Report

Test Lab:	SGS Taiwan Ltd. Central RF Lab
Report Number:	TERF2205000630ER

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2 RF EXPOSURE EVALUATION FOR PORTABLE CONDITIONS

2.1 FCC Standard Applicable:

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

2.1.1 As per KDB 447498 D01 4.3.1,

Step a: For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

- $f(\text{GHz})$ 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
- The values 3.0 and 7.5 are referred to as numeric thresholds in **step b)** below

Step b: For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):

- 1) $\{[\text{Power allowed at numeric threshold for 50 mm in step a}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)]\} \text{ mW, for 100 MHz to 1500 MHz}$
- 2) $\{[\text{Power allowed at numeric threshold for 50 mm in step a}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot 10]\} \text{ mW, for} > 1500 \text{ MHz and} \leq 6 \text{ GHz}$

Step c: For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$
- 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz

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2.2 Measurement Result:

Step a:

This is a portable device and the max. output power including tune-up tolerance is 0.042 (mW), lower than the threshold given and derived as formula given above, where

$$=0.042(\text{mW})/5(\text{mm})^2\sqrt{0.4339(\text{GHz})} = 0.006 < 3.0$$

Frequency (MHz)	Max. output power including tune-up tolerance(dBm)	Max. output power including tune-up tolerance(mW)	Distance (mm)	Result	≤ 3.0 for 1-g SAR
433.9	-13.7687	0.042	5	0.006	TRUE

dBuV/m to mw formula :

$$\text{eirp} = \text{pt} \times \text{gt} = (\text{E} \times \text{d})^2/30$$

where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, --- $10^{(\text{dBuV/m}/20)/10^6}$

d = measurement distance in meters (m)---3m

Field strength = 81.46 dBuV/m

$$\text{Pt} = [10^{(81.46/20)/10^6} \times 3]^2/30 \times 1000 \text{ mW} = 0.04198 \text{ mW}$$

The maximum time-averaged power is less than the threshold Pth (mW), so the device can be excluded from SAR measurement.

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