

FCC RF Exposure

EUT Description: Rowing Machine

Model No.: PW30

FCC ID: 2BCJ8-PW30

1. Limits

According to KDB 447498 D04 General RF Exposure Guidance v01 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

Where:

Result = $P/D \cdot \sqrt{F}$

F = the RF channel transmit frequency in GHz

P = Maximum turn-up power in mw

D = Min. test separation distance in mm

2. Test Result of RF Exposure Evaluation

	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separation distance mm	Result	Limit	SAR Test Exclusion
Module 1	-0.40	-1.2 $\pm$ 1(-0.2)	0.955	5	0.301	3.0	Pass
Module 2	-6.33	-6 $\pm$ 1(-5)	0.316	5	0.098	3.0	Pass

Note:

PK Output power = conducted power.

Conducted power see the test report HK2311035209-1E/2E,

Module 1 antenna gain = -1.42dBi,

Module 2 antenna gain = 1.3dBi,

Simultaneously MPE = $0.301 + 0.098 = 0.399 < 3.0$

Per KDB 447498 D04, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 0.399 which is < 3.0 , SAR testing is not required.

Note: Exclusion Thresholds Results = $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Distance = 5mm