FCC RF Exposure

EUT Description: DC Pump

Model No.: Slim Pro20000, slimpro 2500, slimpro3000, slimpro4000, slimpro 6000, slimpro 8000, slimpro10000, slimpro 12000, slimpro15000, slimpro20000, slimpro 25000, slimpro 30000, Reef80IN, Reef royal 120, Reef royal150, Reef royal200, Reef royal280

FCC ID: 2A7S4-SLIMPRO

1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 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: [(max power of channel, including tune－up tolerance, mW)/(min. test separation distance, mm)] •[√ f(GHz)]≤3.0 for 1－g SAR and ≤ 7.5 for 10－g extremity SAR,

Where:

Result=P/D* √ 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

Frequency (MHz)	Output power （dBm）	Tune Up Power （dBm）	Max Tune Up power dBm/mW	Min test separation distance mm	Result	Limit (mW/cm^2)	SAR Test Exclusion
2402	-2.71	-2±1	-1/0.79	5	0.245	3.0	Pass
Note: PK Output power= conducted power. Conducted power see the test report **HK2207072926-E**, antenna gain=1dBi							

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.245 which is<= 3, RF Exposure testing is not required.

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

$f_{(GHz)}$ is the RF channel transmit frequency in GHz

Distance=5mm