

RF Exposure Evaluation Report

Product : PEDAL ASSISTED BICYCLE
Trade mark : HOVER-1 PRO SERIES
Model/Type reference : Refer to section 4.2
Serial Number : N/A
Report Number : EED32P82119602
FCC ID : 2AANZCMPS
Date of Issue : Feb. 28, 2024
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091(mobile devices)
47 CFR Part 2.1093(portable devices)
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

DGL Group, Ltd.

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Prepared by:

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Feb. 28, 2024



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2 Version

Version No.	Date	Description
00	Feb. 28, 2024	Original

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4 General Information

4.1 Client Information

Applicant:	DGL Group, Ltd.
Address of Applicant:	2045 Lincoln Highway, 3rd floor, Edison, NJ 08817
Manufacturer:	DGL Group, Ltd.
Address of Manufacturer:	2045 Lincoln Highway, 3rd floor, Edison, NJ 08817

4.2 General Description of EUT

Product Name:	PEDAL ASSISTED BICYCLE
Model No.(EUT):	H1-CMPS,H1-CMPS-GRY,H1-CMPS-XXX,H1C-CMPS, H1C-CMPS-GRY,H1C-CMPS-XXX,DSA-CMPS,DSA-CMPS-GRY, DSA-CMPS-XXX,DSA-AH-CMPS,DSA-AH-CMPS-GRY, DSA-AH-CMPS-XXX,EU-H1-CMPS,EU-H1-CMPS-GRY, EU-H1-CMPS-XXX,EU-UK-CMPS,EU-UK-CMPS-GRY, EU-UK-CMPS-XXX
Test Model No.:	H1-CMPS
Trade Mark:	HOVER-1 PRO SERIES

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz	
Modulation Type:	GFSK	
Test Software:	Auto Test (manufacturer declare)	
EUT Power Grade:	Default (Power level is built-in set parameters and cannot be changed and selected)	
Antenna Type:	PCB Antenna	
Antenna Gain:	-1.10dBi	
Power Supply:	Adapter:	Model:BC267546020 Input:100-240V~50/60Hz,2.8A MAX Output:DC 54.6V,2.0A
	Battery:	DC 48V,9.6Ah,460.8Wh
Test Voltage:	DC 48V	
Sample Received Date:	Dec. 28, 2023	
Sample tested Date:	Dec. 28, 2023 to Feb. 05, 2024	
Remark:	<p>Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.</p> <p>Model No.:H1-CMPS,H1-CMPS-GRY,H1-CMPS-XXX,H1C-CMPS,H1C-CMPS-GRY,H1C-CMPS-XXX,DSA-CMPS,DSA-CMPS-GRY,DSA-CMPS-XXX,DSA-AH-CMPS,DSA-AH-CMPS-GRY,DSA-AH-CMPS-XXX,EU-H1-CMPS,EU-H1-CMPS-GRY,EU-H1-CMPS-XXX,EU-UK-CMPS,EU-UK-CMPS-GRY,EU-UK-CMPS-XXX</p> <p>Only the model H1-CMPS was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being model name.</p>	

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula

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

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).

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

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

5.1.3 EUT RF Exposure Evaluation**For Stand alone:****For Bluetooth LE:**

Frequency (MHz)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2402	0.22	-1.10	-3.03	0.4977	≤2.7877	PASS

Note:

① EIRP=conducted power+antenna gain;

② ERP=EIRP-2.15;

③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;

⑤ The estimation distance is 0.5cm;

⑥ The test data please refer to the report of EED32P82119601 and only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

***** End of Report *****