



FCC – Radio Frequency Exposure Report

Report Number	: 607922401202S01	Date of Issue: <u>April 2, 2025</u>
Model/HVIN	: <u>HG12607-US</u>	
Product Type	: <u>20V / 4Ah Smart Battery Pack</u>	
Applicant	: <u>Lidl US LLC</u>	
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Production Facility	: <u>ZHEJIANG LERA NEW ENERGY POWER TECHNOLOGY CO., LTD.</u>	
Address	: <u>No. 255 Kesheng Road, Haishu Wangchun Industrial Park, Ningbo, China</u>	
Test Result	: <input checked="" type="radio"/> Positive <input type="radio"/> Negative	
Total pages including Appendices	: <u>2</u>	

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RF Exposure Estimation – SAR Exempt Evaluation

This exposure evaluation is intended for **FCC ID: 2AJ9O-HG12607-US**

Limit and Guidelines on Exposure to Electromagnetic Fields

According to §15.247(e)(i) and §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.

According to 447498 D01 General RF Exposure Guidance v06, no SAR required if power is lower than the flowing threshold:

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:

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

Calculation method

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0$

The Max Power according to the RF Report No.: 607922401202R01.

Conducted Power + tune up tolerance

$$\begin{aligned} &= 5.38 \text{ dBm} + 0 \text{ dB} \\ &= 5.38 \text{ dBm} \\ &= 3.45 \text{ mW} \end{aligned}$$

$$\begin{aligned} \text{Distance} &= 5 \text{ mm} \\ f(\text{GHz}) &= 2.480 \text{ GHz} \end{aligned}$$

$$[3.45 / 5] * \text{SQRT}(2.480) = 1.09$$

As $1.09 \leq 3.0$

Therefore, this device is exempt from stand-alone SAR test requirements.

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

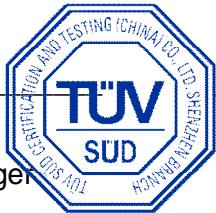
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