



**Dongguan Pendec Acoustics Laboratory**  
**Dongguan Pendec Electronics Telenology Ltd.**

Room 206, Leader Plaza Building, No.303, Changqing South Rd., ChangAn Town, Dongguan City, Guangdong Province, China  
Tel: 86-0769-8150-1015 Fax: 86-0769-8150-1017 www.pal-acoustics.com



## Sound Pressure Level Test Report

Report No. : DH1\_26\_0291-2(Ver.01)

Issue Date : 2026-06-16

**Category: PV Inverter**  
**Project Name: SE 6KHB-D1-LV-ECO-II**

### Shenzhen Senergy Technology Co.,Ltd

Block D, BC Bark, No.18, Xiusha Rd., Shatian Kengzi Sub-district, Pingshan District,  
Shenzhen 518112, P.R.China

**Report Signer**

Denis Wang

Denis\_Wang@pendec.com

**Acoustics Engineer**

Michael Hu

Michael\_Hu@pendec.com

**Test Engineer**

Kyrie Chen

kyrie\_chen@pal-labs.com

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## **1. Introduction**

One PV Inverter designated as "SE 6KHB-D1-LV-ECO-II", was received at Dongguan Pendec Electronics Technology Ltd. on 2026-6-12 and tested on 2026-6-12. Determination of the sound pressure level test was conducted in partial conformance with ISO 7779:2018(E) (Acoustics-Measurement of airborne noise emitted by information technology and telecommunications equipment ) and ISO 11201:2010(E) (Acoustics-Noise emitted by machinery and equipment-measurement of emission sound pressure levels at a work station and at other specified positions-engineering method in an essentially free field over a reflecting plane).

The test was conducted by Kyrie Chen. Data analysis and report generation were conducted by Kyrie Chen.

## **2. General Information**

|                              |                                     |
|------------------------------|-------------------------------------|
| <b>Report Version:</b>       | Version 01(Initial version)         |
| <b>Applicant :</b>           | Shenzhen Senergy Technology Co.,Ltd |
| <b>Manufacturer / OEM :</b>  | Shenzhen Senergy Technology Co.,Ltd |
| <b>Brand Name :</b>          | NA                                  |
| <b>Product description :</b> | PV Inverter                         |
| <b>Project name :</b>        | SE 6KHB-D1-LV-ECO-II                |
| <b>Quantity :</b>            | 1 unit (s)                          |
| <b>Test procedure :</b>      | ISO 7779:2018(E), ISO 11201:2010(E) |
| <b>Standard :</b>            | ISO 7779:2018(E), ISO 11201:2010(E) |

## **3. Testing Configuration**

|                              |                                                                                                                                                                                                                                                                   |                                   |     |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----|
| <b>Environment:</b>          | Temperature:                                                                                                                                                                                                                                                      | 22.8                              | °C  |
|                              | Relative Humidity:                                                                                                                                                                                                                                                | 59.0                              | %   |
|                              | Barometric pressure:                                                                                                                                                                                                                                              | 100.9                             | kPa |
|                              | Testing Chamber:                                                                                                                                                                                                                                                  | Hemi-Anechoic Chamber #1,Dongguan |     |
| <b>Testing Method:</b>       | The sound pressure level is performed in accordance with the procedures specified in clause 8 of ISO 7779: "Acoustics - Measurement of airborne noise emitted by information technology and telecommunication equipment, 2018(E)."                                |                                   |     |
|                              | The sound pressure level is displayed in decibels (reference:20 μPa)                                                                                                                                                                                              |                                   |     |
| <b>Frequency Bandwidth:</b>  | The testing frequency bandwidth is <u>100 Hz~20 KHz in 1/3 Octave bands</u>                                                                                                                                                                                       |                                   |     |
| <b>Frequency Weighting:</b>  | The testing frequency weighting is <u>A-Weighted</u>                                                                                                                                                                                                              |                                   |     |
| <b>Measurement Duration:</b> | Each measurement duration is <u>60 seconds</u>                                                                                                                                                                                                                    |                                   |     |
| <b>Sample Installation:</b>  | The testing sample is installed on the fixture located in the geometric center of the hemi-anechoic chamber                                                                                                                                                       |                                   |     |
| <b>Uncertainty:</b>          | Uncertainty = 2.0 dB(A); The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%. |                                   |     |

#### 4. Test Equipment

| Item | Equipment             | Brand          | Type      | Serial Number | Last Calibration Date | Next Calibration Date | Calibration Source |
|------|-----------------------|----------------|-----------|---------------|-----------------------|-----------------------|--------------------|
| 1    | Microphone            | G.R.A.S.       | Type 46AE | 117209        | 2024/8/5              | 2026/8/4              | GZJLS              |
| 2    | Microphone            | G.R.A.S.       | Type 46AE | 458694        | 2024/8/5              | 2026/8/4              | GZJLS              |
| 3    | Microphone            | G.R.A.S.       | Type 46AE | 117205        | 2024/8/5              | 2026/8/4              | GZJLS              |
| 4    | Microphone            | G.R.A.S.       | Type 46AE | 117203        | 2024/8/5              | 2026/8/4              | GZJLS              |
| 5    | Microphone            | G.R.A.S.       | Type 46AE | 117201        | 2024/8/5              | 2026/8/4              | GZJLS              |
| 6    | Preamplifier          | G.R.A.S.       | Type 26CA | 121980        | 2024/8/5              | 2026/8/4              | GZJLS              |
| 7    | Preamplifier          | G.R.A.S.       | Type 26CA | 471166        | 2024/8/5              | 2026/8/4              | GZJLS              |
| 8    | Preamplifier          | G.R.A.S.       | Type 26CA | 121976        | 2024/8/5              | 2026/8/4              | GZJLS              |
| 9    | Preamplifier          | G.R.A.S.       | Type 26CA | 121974        | 2024/8/5              | 2026/8/4              | GZJLS              |
| 10   | Preamplifier          | G.R.A.S.       | Type 26CA | 121972        | 2024/8/5              | 2026/8/4              | GZJLS              |
| 11   | Extender Power Module | Head Acoustics | GSS102    | 049068-072011 | N/A                   | N/A                   | N/A                |
| 12   | Connect Module        | Head Acoustics | LMF2fe    | 045216-032010 | 2024/7/16             | 2026/7/15             | GZJLS              |
| 13   | 6 Channel Module      | Head Acoustics | DIC6B     | 045288-032010 | 2024/7/16             | 2026/7/15             | GZJLS              |
| 14   | 4 Channel Module      | Head Acoustics | DEBU      | 044824-012010 | 2024/7/16             | 2026/7/15             | GZJLS              |

## **5. Reference**

1. ISO 7779: 2018(E) - Acoustics - Measurement of airborne noise emitted by information technology and telecommunications equipment
2. ISO 11201: 2010(E) - Acoustics - Noise emitted by machinery and equipment - Measurement of emission sound pressure levels at a work station and at other specified positions - Engineering method in an essentially free field over a reflecting plane

## **6. Notification**

1. The version 01 is the initial version.
2. The test results are only valid for the specimen tested.
3. This test report should be used in complete form and any statement or result is partial extraction of this report is not valid.
4. The TAF and ilac logo only assures the quality system of Dongguan Pendec Electronics Technology Ltd. is accordance with the requirement of ISO/IEC 17025.
5. All testing data are not included in the accreditation scope of TAF. TAF does not assure whether the reporting data are correct or not. Clients shall not claim product certification, approval, or endorsement by TAF or any agency.

## 7. Test Setup

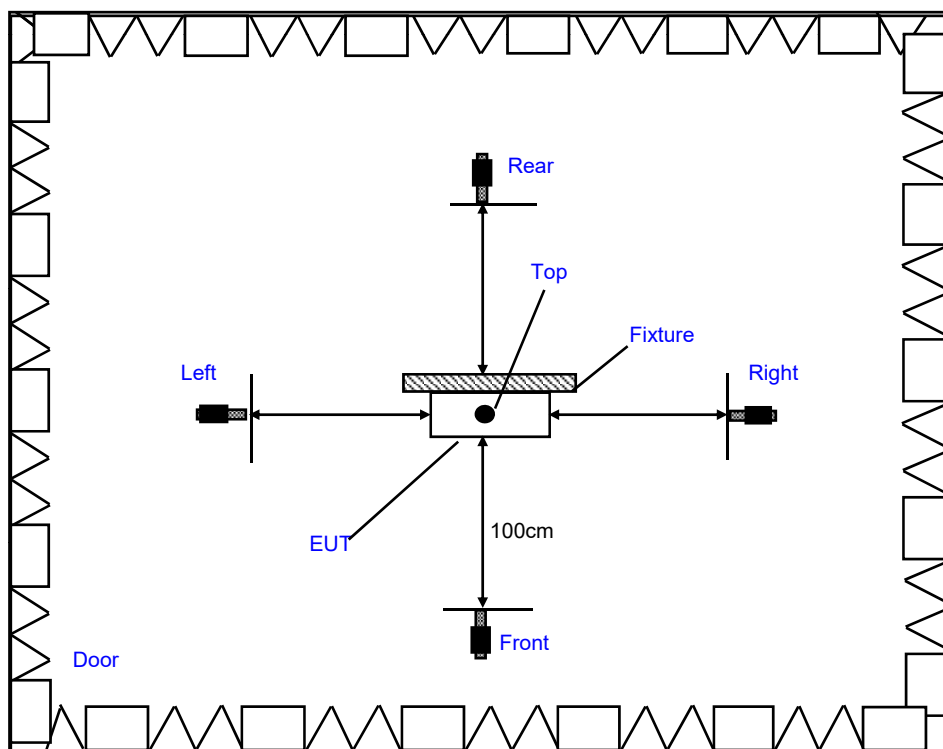


Fig. 1 Location of EUT and microphone bystander position (Top view)

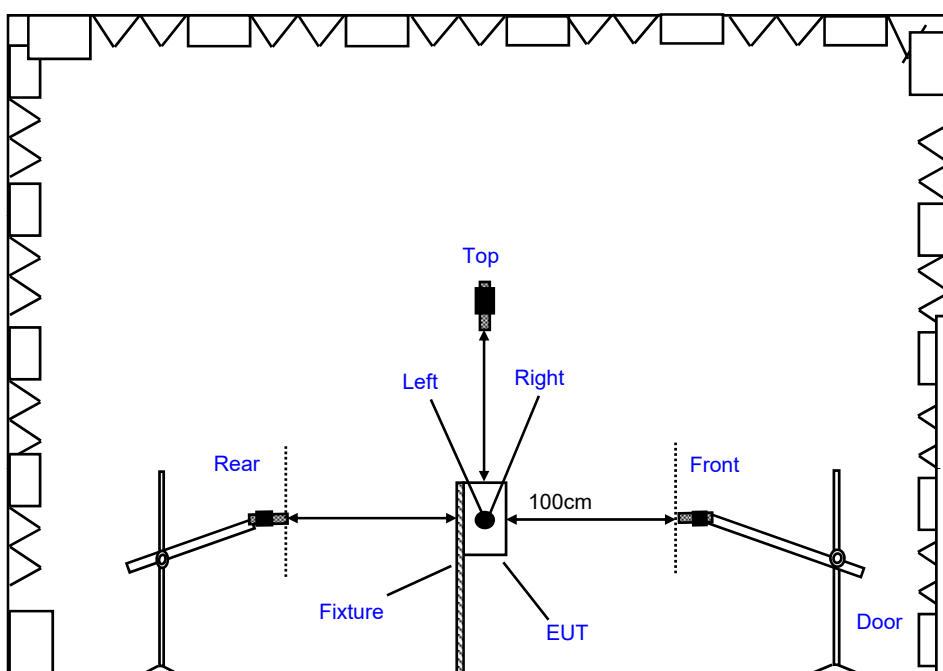


Fig. 2 Location of EUT and microphone bystander position (Side view)

## 8. Setup Photo

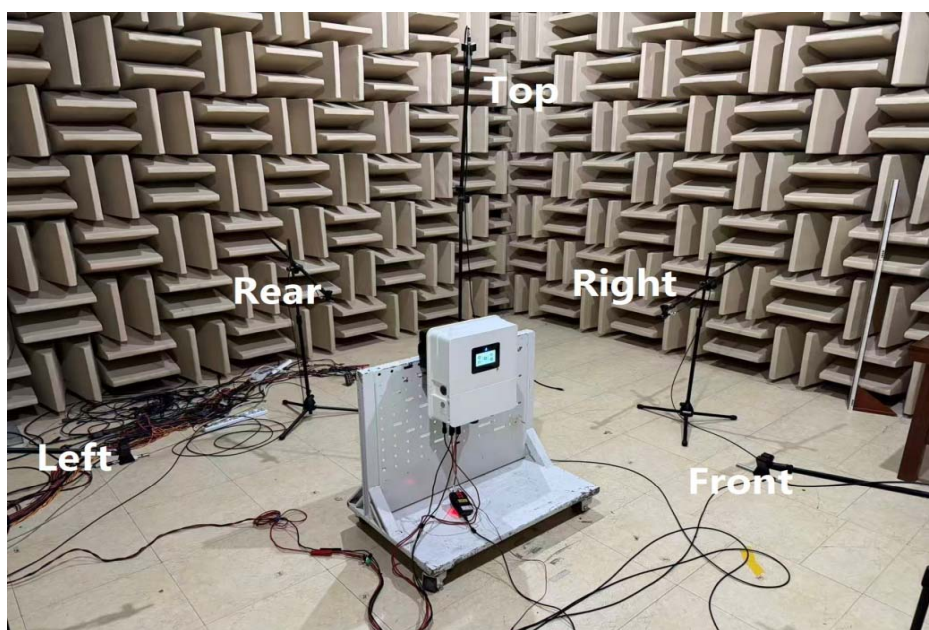


Fig. 3 Setup of EUT (overall view)



Fig. 4 Setup of EUT (close view)

**9. Test Result**

| No. | Mode                         | Measured<br>Sound Pressure Level<br>dB(A) | Background Noise<br>Correction<br>dB(A) | Corrected<br>Sound Pressure Level<br>dB(A) |
|-----|------------------------------|-------------------------------------------|-----------------------------------------|--------------------------------------------|
|     |                              | Front                                     |                                         |                                            |
|     | Background noise             | 16.3                                      | K <sub>1A</sub> , Front                 | Front                                      |
|     |                              |                                           |                                         |                                            |
| 1   | SE 6KHB-D1-LV-ECO-II_Typical | 39.8                                      | 0.0                                     | 39.8                                       |
| 2   | SE 6KHB-D1-LV-ECO-II_Max     | 43.9                                      | 0.0                                     | 43.9                                       |

Note: If the difference between measured sound pressure levels and background noise( $\Delta L$ ) < 6 dB, K<sub>1A</sub> to be applied is 1.3 dB;  
If  $\Delta L$  > 15 dB, K<sub>1A</sub> to be applied is 0 dB ; Else K<sub>1A</sub> calculated according to Equation  $K_{1A} = -10 \lg(1 - 10^{-0.1 \Delta L})$  dB for accuracy grade 2  
(according to Sec.5.4.2 of ISO 11201:2010( E)).

For some cases, the corrected sound pressure level might be lower than the background noise. It can be assumed that the source emits little or no measurable noise, and that the data reported represent upper bounds to the emission sound pressure level.

## 10. Spectrum

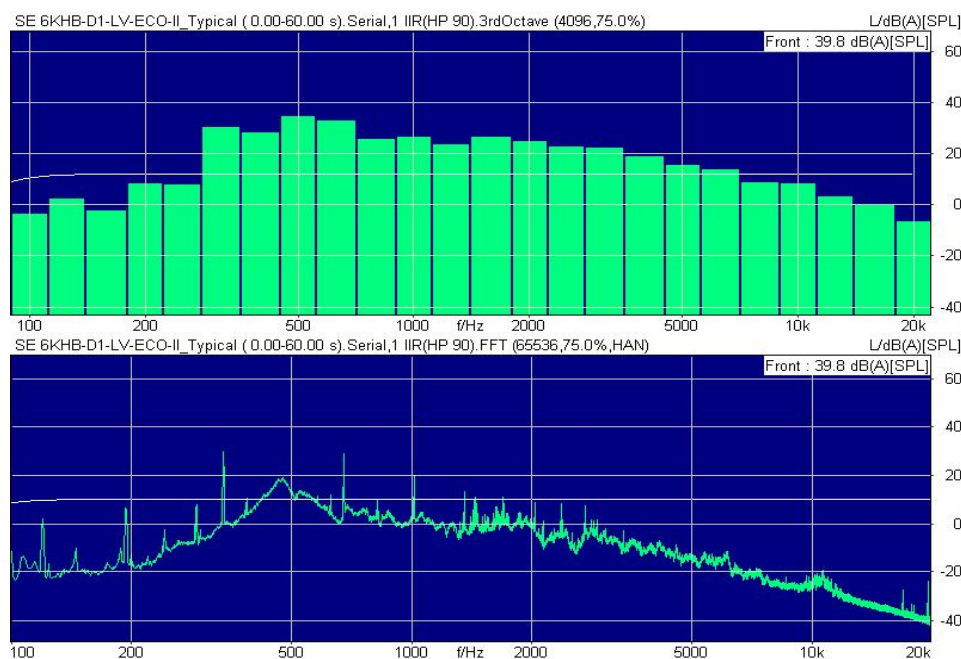


Fig. 5 SE 6KHB-D1-LV-ECO-II\_Typical

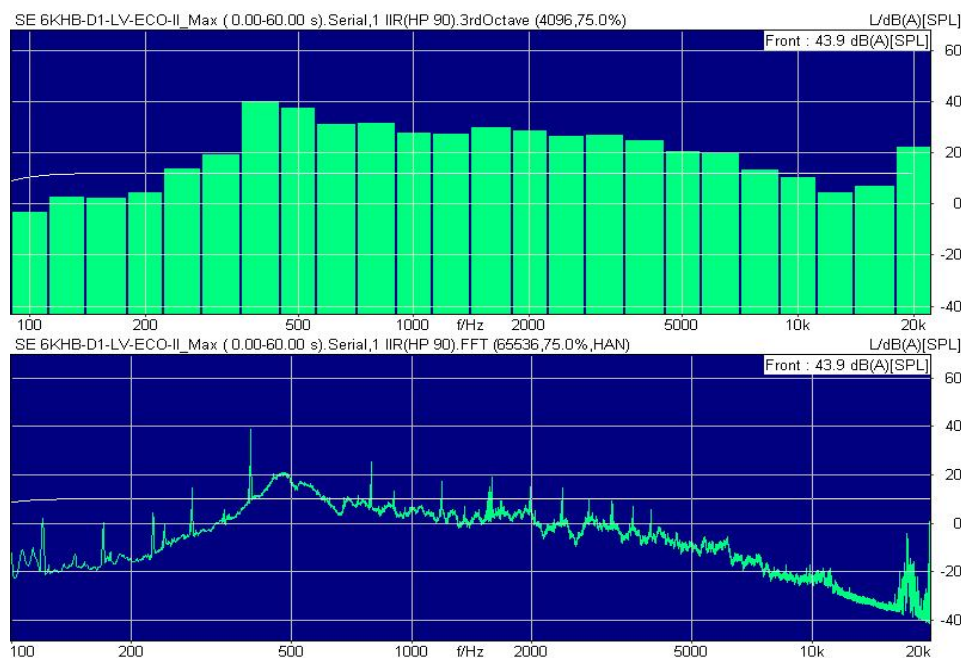


Fig. 6 SE 6KHB-D1-LV-ECO-II\_Max

Null Below