



# PRODUCT CARBON FOOTPRINT (PCF) MEASURED STATEMENT OF VERIFICATION

Project number: 4791753591  
Issue Date: June 27, 2025

## UL has assessed the Product Carbon Footprint (PCFs) for **GUANGZHOU SHIKUN ELECTRONICS Co., LTD**

Guangzhou Shikun Electronics Co., Ltd contracted UL to perform an external independent verification of the Product Environmental Footprint Report, **65BDL4252E/65BDL4352E, 75BDL4252E/75BDL4352E, 86BDL4252E/86BDL4352E, June 2025**, by CIRS.

**August 2024 to February 2025**

### **65BDL4252E/65BDL4352E**

#### **PCF Total Net GHG Emissions and Removals:**

2.13E+03 kg of net CO<sub>2</sub>e emissions/removals per 1 product operated for 30000 hours

#### **Net Fossil GHG emissions and removals:**

2.07E+03 kg of net Fossil CO<sub>2</sub>e emissions/removals per 1 product operated for 30000 hours

#### **Net Biogenic GHG emissions and removals:**

0.53E+02 kg of Biogenic CO<sub>2</sub>e emissions per 1 product operated for 30000 hours

#### **Direct Land Use Change (dLUC) GHG emissions and removals:**

5.03E+00 kg of CO<sub>2</sub>e emissions per 1 product operated for 30000 hours

### **75BDL4252E/75BDL4352E**

#### **PCF Total Net GHG Emissions and Removals:**

2.49E+03 kg of net CO<sub>2</sub>e emissions/removals per 1 product operated for 30000 hours

#### **Net Fossil GHG emissions and removals:**

2.42E+03 kg of net Fossil CO<sub>2</sub>e emissions/removals per 1 product operated for 30000 hours

#### **Net Biogenic GHG emissions and removals:**

0.63E+02kg of Biogenic CO<sub>2</sub>e emissions per 1 product operated for 30000 hours

#### **Direct Land Use Change (dLUC) GHG emissions and removals:**

5.77E+00 kg of CO<sub>2</sub>e emissions per 1 product operated for 30000 hours

UL's Product Carbon Footprint Measured approach is a critical review of the product carbon footprint to ISO 14067. Greenhouse Gases – Carbon Footprint of Products – Requirements and Guidelines For Quantification. The review meets the criteria of ISO 14071.

The carbon measured program focuses on methodology and is done through a desk assessment of the LCA and footprint report. The verification confirms that the footprint meets the criteria and is not only in compliance with ISO 14067 but also ISO 14040 and ISO 14044 as well as any relevant Product Category Rule.



86BDL4252E/86BDL4352E

PCF Total Net GHG Emissions and Removals:

3.14E+03 kg of net CO2e emissions/removals per 1 product operated for 30000 hours

Net Fossil GHG emissions and removals:

3.05E+03 kg of net Fossil CO2e emissions/removals per 1 product operated for 30000 hours

Net Biogenic GHG emissions and removals:

0.83E+02kg of Biogenic CO2e emissions per 1 product operated for 30000 hours

Direct Land Use Change (dLUC) GHG emissions and removals:

7.37E+00 kg of CO2e emissions per 1 product operated for 30000 hours

\*note aircraft emissions are negligible and not reported.

Validity Period: June 27, 2025 – June 27, 2030

|                 |                         |                                                                                     |
|-----------------|-------------------------|-------------------------------------------------------------------------------------|
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**Guangzhou Shikun  
Electronics Co., Ltd**

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**REVIEW SCOPE**

The intent of this review was to provide an independent third-party external verification of a completed carbon footprint of product study report to support the Guangzhou Shikun Electronics Co., Ltd 65BDL4252E/65BDL4352E, 75BDL4252E/75BDL4352E, 86BDL4252E/86BDL4352E.

The review of the Carbon Footprint of Products study was performed to demonstrate conformance with the following standards, general program instructions, and product category rules:

- International Organization for Standardization. (2000). *Environmental labels and declarations -- General principles* (ISO 14020:2000).
- International Organization for Standardization. (2020). *Environmental management -- Life cycle assessment -- Principles and framework* (ISO 14040:2006/ Amd 1:2020).
- International Organization for Standardization. (2020). *Environmental management -- Life cycle assessment -- Requirements and guidelines* (ISO 14044:2006/ Amd 1:2017/ Amd 2:2020).
- International Organization for Standardization. (2020). *Greenhouse gases — Carbon footprint of products — Requirements and guidelines for quantification* (ISO 14067:2018).
- International Organization for Standardization. (2014). *Environmental management -- Life cycle assessment -- Critical review processes and reviewer competencies: Additional requirements and guidelines to ISO 14044:2006*. (ISO/TS 14071:2014).
- UL Environment. (2022). *General Program Instructions*. Version 2.7, revised March.

The independent third-party verification was conducted by an external expert per ISO/TS 14071:2014:

**REVIEW & VERIFICATION PROCESS**

The review involved the verification based on the requirements set forth by the applicable ISO standards, •BS EN 50693:2019, and UL's General Program Instructions (GPIs). The critical review of the Carbon Footprint of Products project report identified and categorized all requirements specified by the PCR, GPIs, and applicable ISO standards.

This review did not include an assessment of the Life Cycle Inventory (LCI) of the Carbon Footprint of Products model, however, it did include a detailed analysis of the individual datasets used to complete the study.

**VERIFICATION STATEMENT**

Based on the independent verification objectives, the **Product Environmental Footprint Report, 65BDL4252E/65BDL4352E, 75BDL4252E/75BDL4352E, 86BDL4252E/86BDL4352E, June 2025, by CIRS**, was verified to be *in conformance* with the applicable ISO standards referenced above, and the UL Environment General Program Instructions and are stated in the table below:

**Table 1: PCF results (unit kg CO<sub>2</sub>e / pc 65BDL4252E/65BDL4352E)**

| Indicators                                        | Manufacturing |           |           | Distribution | Installation | Use           | EoL       | Total     |
|---------------------------------------------------|---------------|-----------|-----------|--------------|--------------|---------------|-----------|-----------|
|                                                   | A1            | A2        | A3        | A4           | A5           | B1-B7         | C1-C4     |           |
| GWP100 - fossil                                   | 8.92E+02      | 3.79E+00  | 9.96E+00  | 1.38E+01     | 1.05E+00     | 1.14E+03      | 9.05E+00  | 2.07E+03  |
| GWP100 - biogenic                                 | 4.16E+01      | 3.01E-02  | 8.89E-01  | 9.22E-02     | 7.69E+00     | 1.62E+02      | 9.28E+00  | 2.21E+02  |
| GWP100 - land transformation                      | 1.64E+00      | 1.98E-03  | 7.15E-03  | 5.94E-03     | 2.81E-04     | 3.38E+00      | 1.14E-03  | 5.03E+00  |
| GWP100 - CO <sub>2</sub> uptake                   | -<br>4.32E+01 | -2.80E-02 | -8.67E-02 | -8.81E-02    | -6.42E-03    | -<br>1.24E+02 | -2.60E-02 | -1.68E+02 |
| GWP-total (excl. biogenic emissions and removals) | 9.35E+02      | 3.83E+00  | 1.09E+01  | 1.39E+01     | 8.75E+00     | 1.31E+03      | 1.83E+01  | 2.30E+03  |
| GWP-total (incl. biogenic emissions and removals) | 8.92E+02      | 3.80E+00  | 1.08E+01  | 1.38E+01     | 8.74E+00     | 1.19E+03      | 1.83E+01  | 2.13E+03  |

**Table 2: PCF results (unit kg CO<sub>2</sub>e / pc 75BDL4252E/75BDL4352E)**

| Indicators                                        | Manufacturing |           |           | Distribution | Installation | Use       | EoL       | Total     |
|---------------------------------------------------|---------------|-----------|-----------|--------------|--------------|-----------|-----------|-----------|
|                                                   | A1            | A2        | A3        | A4           | A5           | B1-B7     | C1-C4     |           |
| GWP100 - fossil                                   | 1.08E+03      | 5.95E+00  | 1.00E+01  | 2.03E+01     | 1.59E+00     | 1.29E+03  | 1.22E+01  | 2.42E+03  |
| GWP100 - biogenic                                 | 5.30E+01      | 4.78E-02  | 1.20E+00  | 1.36E-01     | 1.10E+01     | 1.83E+02  | 1.20E+01  | 2.60E+02  |
| GWP100 - land transformation                      | 1.93E+00      | 3.12E-03  | 7.17E-03  | 8.78E-03     | 4.09E-04     | 3.81E+00  | 1.64E-03  | 5.77E+00  |
| GWP100 - CO <sub>2</sub> uptake                   | -5.57E+01     | -4.45E-02 | -8.70E-02 | -1.30E-01    | -9.29E-03    | -1.41E+02 | -3.76E-02 | -1.97E+02 |
| GWP-total (excl. biogenic emissions and removals) | 1.14E+03      | 6.00E+00  | 1.12E+01  | 2.05E+01     | 1.26E+01     | 1.48E+03  | 2.42E+01  | 2.69E+03  |
| GWP-total (incl. biogenic emissions and removals) | 1.08E+03      | 5.95E+00  | 1.11E+01  | 2.04E+01     | 1.25E+01     | 1.34E+03  | 2.41E+01  | 2.49E+03  |

**Table 3: PCF results (unit kg CO<sub>2</sub>e / pc 86BDL4252E/86BDL4352E)**

| Indicators                                        | Manufacturing |           |           | Distribution | Installation | Use       | EoL       | Total     |
|---------------------------------------------------|---------------|-----------|-----------|--------------|--------------|-----------|-----------|-----------|
|                                                   | A1            | A2        | A3        | A4           | A5           | B1-B7     | C1-C4     |           |
| GWP100 - fossil                                   | 1.25E+03      | 7.28E+00  | 1.01E+01  | 2.53E+01     | 1.87E+00     | 1.74E+03  | 1.57E+01  | 3.05E+03  |
| GWP100 - biogenic                                 | 6.31E+01      | 6.10E-02  | 1.57E+00  | 1.69E-01     | 1.34E+01     | 2.45E+02  | 1.55E+01  | 3.39E+02  |
| GWP100 - land transformation                      | 2.22E+00      | 3.88E-03  | 7.19E-03  | 1.09E-02     | 4.92E-04     | 5.12E+00  | 2.05E-03  | 7.37E+00  |
| GWP100 - CO <sub>2</sub> uptake                   | -6.71E+01     | -5.68E-02 | -8.73E-02 | -1.62E-01    | -1.12E-02    | -1.89E+02 | -4.70E-02 | -2.56E+02 |
| GWP-total (excl. biogenic emissions and removals) | 1.32E+03      | 7.34E+00  | 1.16E+01  | 2.54E+01     | 1.52E+01     | 1.99E+03  | 3.11E+01  | 3.40E+03  |
| GWP-total (incl. biogenic emissions and removals) | 1.25E+03      | 7.29E+00  | 1.15E+01  | 2.53E+01     | 1.52E+01     | 1.80E+03  | 3.11E+01  | 3.14E+03  |

\*\* Functional Unit is 1 pc 65BDL4252E/65BDL4352E, 75BDL4252E/75BDL4352E, 86BDL4252E/86BDL4352E LCD Monitor with a 30000 hours reference service life.

The plausibility, quality, and accuracy of the LCA-based data and supporting information are confirmed.

As the External Independent Third-Party Reviewer, I confirm that I have sufficient knowledge and experience of the product field, the relevant PCR, ISO standards and the geographical areas intended to generate Carbon Footprint of Products to carry out this verification.

Sincerely,



YeonSung Mo  
H.I.Pathway Co., LTD.