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# CFP STUDY REPORT: EM530DINRG53XS1X

**Issued according to ISO 14067:2018**

**Result verified ref to ICMQ certifications nr. CFPSA226 - 23/12/2024**

## 1. FOREWORD

This report is part of the procedures and documents of the LCA tool and, in particular, reports the data relating to the CFP of the specific product being analyzed.

The information contained in this specific product CFP study report must therefore always be read together with the "GAV_LCA Tool General Study Report_dati 2023 - rev 1". They are therefore very concise on a discursive level and are focused above all on the quantification of the CFP of the product under analysis.

## 2. GOAL AND SCOPE

The objective of the study is the quantification of the product Carbon Footprint (CFP) relating to the **EM530DINRG53XS1X** device, of the **Energy** category, with a power of **2.14 W** and a lifespan of 20 years. This calculation is based on production data from the production site located in Italy.

## 3. INVENTORY ANALYSIS

The device under study is the **EM530DINRG53XS1X** model with a total weight of 0.255 kg, including packaging.

Reference tool for the calculation: LCA tool_data 2023_GAV rev4 dated 15/11/2024.

## 4. IMPACT ASSESSMENT

Please refer to chapter 4.1 of the "GAV_LCA Tool General Study Report_dati 2023 - rev 1".

### 4.1 Total CFP

Below is the overall quantitative impact of the CFP of the product covered by this study, **EM530DINRG53XS1X** device.

| CFP (kg CO2e/device) | | Production UPSTREAM (kg CO2e) | Production CORE (kg CO2e) | Production DOWNSTREAM (kg CO2e) |
|---|---|---|---|---|
| **TOTAL** | **174.48** | **5.96** | **1.39** | **167.13** |

### 4.2 Other GHG emissions and removals constituting CFP

*The totals expressed in the following table include the sums of the impacts of the cradle-to-grave phases.*

| GHG VALUES CONSTITUTING THE CFP | UNIT OF MEASURE | DEVICE EM530DINRG53XS1X |
|---|---|---|
| GHG emission and removals from fossil carbon sources and sinks | kg CO2e/U.F. | 173.36 |
| GHG emissions from biogenic carbon sources | kg CO2e/U.F. | 0.17 |
| GHG emissions and removals resulting from dLUC | kg CO2e/U.F. | 0.96 |
| GHG emissions from aviation | kg CO2e/U.F. | 1.66 |

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