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CFP STUDY REPORT: RGC1P23V12ED

Issued according to ISO 14067:2018

Result verified ref to ICMQ certification nr. CFPSA315

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_2024 data_rev1". 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 **RGC1P23V12ED** device, of the **Solid state relays** category, with a power of **12 W** and a lifespan of **20 years.**

3. INVENTORY ANALYSIS

The device under study is the **RGC1P23V12ED** model with a total weight of 0.27 kg, including packaging.
Reference tool for the calculation: LCA tool_data 2024_GAV Kunshan dated 04/10/2025.

4. IMPACT ASSESSMENT

Please refer to chapter 4.1 of the “GAV_LCA Tool General Study Report_2024 data_rev1”.

4.2 Total CFP

Below is the overall quantitative impact of the CFP of the product covered by this study, **RGC1P23V12E** device.

CFP (kg CO2e/device)		Production UPSTREAM (kg CO2e)	Production CORE (kg CO2e)	Production DOWNSTREAM (kg CO2e)
TOTAL	376.78	4.47	0.51	371.80

4.2.1 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
		RGC1P23V12ED
GHG emission and removals from fossil carbon sources and sinks	kg CO2e/U.F.	375.63
GHG emissions from biogenic carbon sources	kg CO2e/U.F.	1.07
GHG emissions and removals resulting from dLUC	kg CO2e/U.F.	0.08
GHG emissions from aviation	kg CO2e/U.F.	0.10

Responsible party:

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