

Eve  
Double  
Pro-line



# Environmental Product Declaration

**Eve Double Pro-line FR**, 3 phase, 2x socket Type 2S (shutters), dual feeder

**Geographical Availability:** This product is available for sale in the European market

# 01

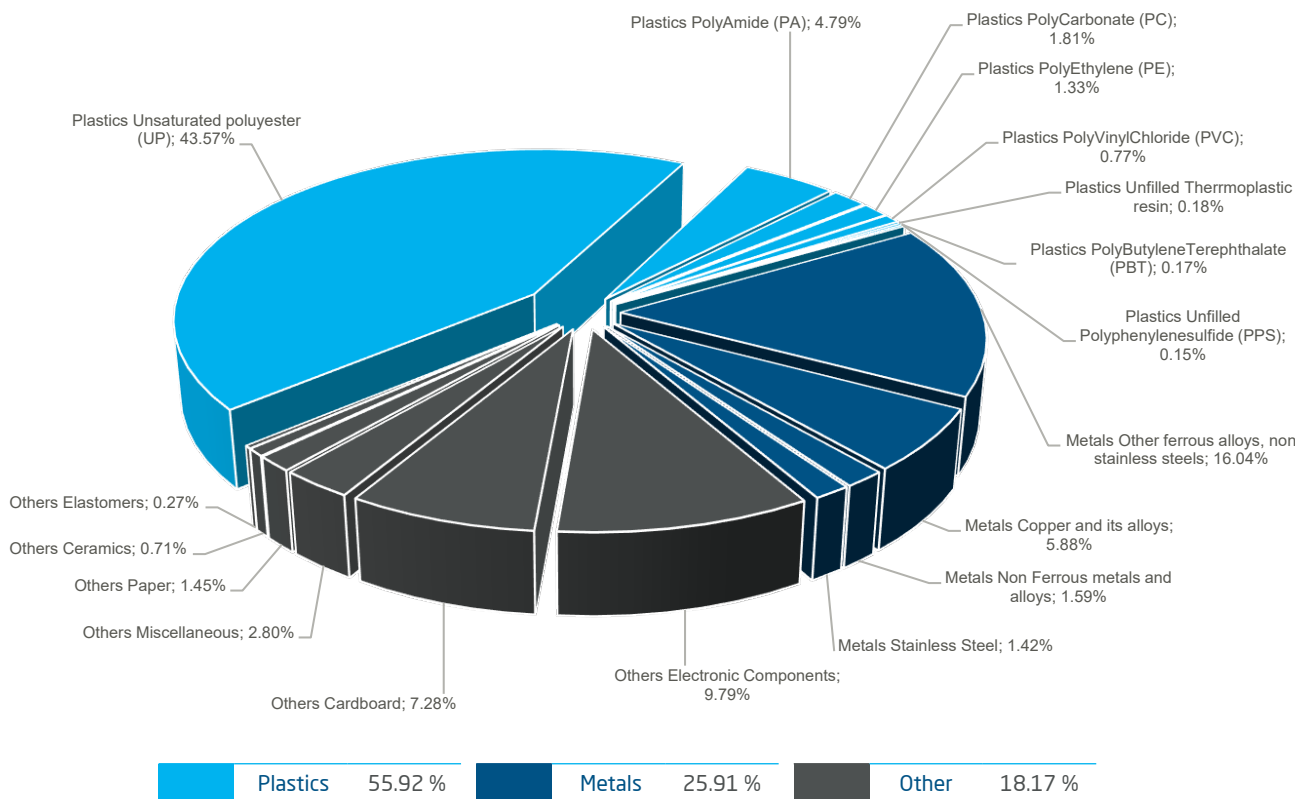
## General Information

<b>Reference Product</b>	Eve Double Pro Line FR, 3 phase, 2x socket Type 2S (shutters), dual feeder
<b>Description of the product</b>	Eve Double Pro-Line is a charging station with smart solutions for semi-public spaces. It runs in mode 3 and charging type is normal. It includes one RIFD control system, a color display screen 7" TFT and type2 sockets shutters, in accordance with IEC62196-2, ed. 2. The elements used for connecting the station to the mains grid and to the monitoring and communication network are excluded.
<b>Functional Unit (FU)</b>	Supply 1 kWh to one vehicle at the charging point in accordance with the reference use scenario. The reference use scenario is described in the chapter 4. Environmental Impact.

# 02

## Constituent Materials

<b>Reference mass product</b>	21.182 kg including the product, its packaging and additional elements supplied with the product.
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# 03

## Additional Environmental Information

<b>Manufacturing</b>	<p>Eve Double Pro line is manufactured/assembled in our production facility in the Netherlands with an ISO 14001:2015-certified environmental management system and an ISO50001:2018-certified energy management system.</p> <p>Details about conformity with ROHS and REACH regulated substances are available on Alfen's website..</p>
<b>End of life</b>	<p>Eve Double Pro line is covered by the WEEE directive (2012/19/EU). Therefore, it must be properly processed before recovery or recycling.</p> <p><b>Selective Treatment</b></p> <p>For this product, the printed circuit boards larger than 10 cm2 must be removed from the collected WEEE by the Authorized Treatment Facility (ATF).</p> <p><b>Extended Producer Responsibility</b></p> <p>This product is registered in the applicable Extended Producer Responsibility scheme to which Alfen is obliged to pay fees in line with WEEE directive (2012/19/EU) for collection and recycling of end-of-life products placed on the European Market.</p>

# 04

## Environmental Impact

<b>Reference Service lifetime (RL)</b>	10 years
<b>Installation Components</b>	Non-installation elements were included due to their minimal impact. Waste processing is included.
<b>Use scenario</b>	<p>Product category: PSR-0018-ed1.1-EN-2024 01 31 - 2.1.3.1. Public station on a base running on alternating current (AC)</p> <p>Number of charging sessions: 2 per day per simultaneous charging point, or.</p> <p>Effective charge time: 1.2 hours at 22 kW</p> <p>Average time plugged in per charging session = 5 hours</p> <p>Average amount of electricity supplied per charging session for a given charging point over the station's reference lifetime (RL) based on a vehicle consumption of 20kwh per 100 km: 395,514 kwh.</p>
<b>Geographical Representativeness</b>	Europe
<b>Technological Representativeness</b>	Based on the specifications and technology described in the product's data sheet, detailing the charger's current design and functionality.
<b>Energy model used</b>	<p>Manufacturing: Photovoltaic Energy; Electricity Production; Low Voltage; NL</p> <p>Installation: Electricity Mix; Production mix; Low voltage; FR</p> <p>Use: Electricity Mix; Production mix; Low voltage; FR.</p> <p>Decarbonization Consideration: The model incorporates the progressive decarbonization of the electricity grid over a 10-year period.</p> <p>End of life: Electricity Mix; Production Mix, Low Voltage; EU27</p>

All indicators below are scaled down to the supply of 1KWh of energy

## Eve Double Pro Line FR, 3 phase, 2x socket Type 2S (shutters), dual feeder

Mandatory Environmental Impact Indicators	Unit	Total	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B1-B7)	End of life (C1-C4)
Climate change - total (GWP-t)	kg CO2 eq	1.03E-03 <sup>1</sup>	8.04E-04	2.52E-05	6.47E-07	1.24E-04 <sup>1</sup>	7.73E-05
Climate change - fossil (GWP-f)	kg CO2 eq	1.67E-03 <sup>1</sup>	8.02E-04	2.52E-05	6.47E-07	7.61E-04 <sup>1</sup>	7.73E-05
Climate change - biogenic (GWP-b)	kg CO2 eq	0.00E+00	-5.35E-06	0.00E+00	0.00E+00	0.00E+00	5.35E-06
Climate change - land use and LU change (GWP-luluc)	kg CO2 eq	1.93E-06 <sup>1</sup>	1.39E-06	1.22E-08	8.10E-11	5.21E-07 <sup>1</sup>	3.00E-09
Ozone depletion (ODP)	kg CFC11 eq	7.92E-11	4.69E-11	5.48E-13	3.39E-15	3.16E-11	1.09E-13
Acidification (AP)	mol H+ eq	1.14E-05	5.91E-06	8.22E-08	1.16E-09	5.33E-06	3.19E-08
Eutrophication, freshwater (EP-fw)	kg P eq	1.27E-07	1.02E-07	2.02E-10	3.15E-12	2.47E-08	8.27E-11
Eutrophication, marine (EP-m)	kg N eq	1.79E-06	9.73E-07	2.79E-08	5.55E-10	7.73E-07	1.31E-08
Eutrophication, terrestrial (EP-t)	mol N eq	2.01E-05	1.13E-05	2.99E-07	4.73E-09	8.45E-06	1.40E-07
Photochemical ozone formation (POCP)	kg NMVOC eq	6.49E-06	3.45E-06	1.23E-07	1.76E-09	2.88E-06	3.62E-08
Resource use, minerals and metals (ADP-mm)	kg Sb eq	2.23E-07	1.87E-07	8.09E-11	9.51E-13	3.59E-08	1.99E-11
Resource use, fossils (ADP-f)	MJ	1.16E-01	1.15E-02	3.57E-04	2.51E-06	1.04E-01	4.59E-05
Water use (WDP)	m3-world eq	5.69E-04	2.81E-04	1.46E-06	3.80E-08	2.83E-04	3.48E-06

## Eve Double Pro Line FR, 3 phase, 2x socket Type 2S (shutters), dual feeder

Mandatory Environmental Impact Indicators	Unit	Total	Manufacturing (A1-A3)	Distribution (A4)	Installation (A5)	Use (B1-B7)	End of life (C1-C4)
Resource use indicators							
Energy, primary, renewable, excluding materials (PERE)	MJ	4.35E-03	4.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Energy, primary, renewable, materials (PERM)	MJ	1.83E-03	1.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Energy, primary, renewable (PERT)	MJ	2.13E+00	2.76E-01	1.17E-03	2.01E-05	1.85E+00	6.86E-04
Energy, primary, non-renewable, excluding materials (PENRE)	MJ	2.12E-01	2.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Energy, primary, non-renewable, materials (PENRM)	MJ	6.51E-03	6.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Energy, primary, non-renewable (PENRT)	MJ	2.47E+01	2.57E+00	8.00E-02	5.63E-04	2.20E+01	1.03E-02
Indicators describing the use of secondary materials, water, and energy resources							
Secondary material (SM)	kg	1.64E-05	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary fuel, renewable (RSF)	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Secondary fuel, non-renewable (NRSF)	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Water, fresh water use (FW)	m3	7.72E-03	1.46E-03	1.00E-05	2.68E-07	6.23E-03	2.39E-05
Waste category indicators							
Waste, hazardous (HWD)	kg	7.75E-02	3.13E-02	3.13E-02	4.79E-07	3.21E-09	1.41E-05
Waste, non hazardous (NHWD)	kg	1.10E-01	6.90E-02	2.45E-02	3.68E-03	6.14E-05	4.01E-02
Waste, radioactive (RWD)	kg	1.84E-04	2.93E-04	9.48E-06	2.45E-08	5.14E-10	2.83E-04
Output flow indicators							
Components for re-use (CRU)	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling (MFR)	kg	3.65E-03	3.06E-04	0.00E+00	7.63E-04	0.00E+00	2.58E-03
Materials for energy recovery (MER)	kg	3.29E-03	7.14E-05	0.00E+00	1.10E-04	0.00E+00	3.11E-03
Exported energy, electric (EEE)	MJ	8.64E-03	1.69E-04	0.00E+00	2.77E-04	0.00E+00	8.20E-03
Exported energy, thermal (EET)	MJ	2.14E-02	4.18E-04	0.00E+00	6.84E-04	0.00E+00	2.03E-02
Other indicators							
Biogenic carbon content of the product	kg of C	1.49E-05	1.49E-05	0*	0*	0*	0*
Biogenic carbon content of the packaging	kg of C	2.93E-04	2.93E-04	0*	0*	0*	0*

\* Represents less than 0.01% of the total life cycle of the reference flow

<sup>1</sup> Indicators have been adjusted based on the assumed linear reduction in electricity grid intensity from 2024 to 2050, aligning with the net-zero commitments of the countries where our products are sold.

Life cycle assessment was performed using the Ecochain LCA software, Ecoinvent version 3.9.1 database in compliance with ISO14040/ISO14044. The biogenic carbon content was calculated in accordance with EN15804+A2.

Data of issue	21/03/2025
Drafting Rules	PEP-PCR-ed4-2021 09 06
Supplemented by	PSR-0018-ed1.1-EN-2024 01 31
Information and reference documents	www.pep-ecopassport.org
Validity Period	5 years
Independent Verification of the data and declaration conducted by an environmental specialist, in compliance with ISO 14025: 2010	<input checked="" type="checkbox"/> Internal <input type="checkbox"/> External

This PEP has been developed in alignment with the requirements of EN 50693:2019.

The elements of the present PEP cannot be compared with elements from another program.

This document is prepared in accordance with ISO 14025: 2010 « Environmental labels and declarations. Type III environmental declarations », based on self-declared and non-verified PEP.

**Alfen ICU B.V.**  
<https://alfen.com/en-nl>

**Statutory address**  
Hefbrugweg 79  
1332 AM Almere  
The Netherlands  
[sustainability@alfen.com](mailto:sustainability@alfen.com)

**Production facility**  
Hefbrugweg 85  
1332 AM Almere  
The Netherlands

