



Product Environmental Profile EVCS witty 1x7kW T2+TE+TIC+wifi+PFR



Company information

Hager

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References covered

XEV1K04T2, XEV1K07T2, XEV1K07T2TPFR, XEV1K07T2TE, XEV1K07T2TETPFR, XEV1K11T2, XEV1K11T2TE, XEV1K22T2, XEV1K22T2T, XEV1K22T2TE, XEV1K22T2TET, XEV1K07T2TW, XEV1K07T2TETWPFR, XEV1K22T2TETW.

A question concerning the Product Environmental Profile: infopep@hager.com

Methodology

PEP has been performed according to the PCR version PEP-PCR-ed3-2015 04 02 and PSR version PSR-0005-ed2-2016 03 29 issued by the PEP ecopassport program.

For further information, please see the website of the program www.pep-ecopassport.org

Reference product identification

XEV1K07T2TETWPFR

Functional unit

Making 1 kWh available to a vehicle under the reference scenario at a charge point:

Average daily journey: 43 km/day, 90% of which is recharged at private charging stations, i.e. 38.7 km/day.

Number of recharges: 2 recharges per week.

Effective recharging time: 3.87 hours for 7 kW.

Average time connected = 12 h.

Average amount of electricity delivered for a charge point on the DVR considering an electrical need of the vehicle of 20kWh/100km.

The functional unit is based on the use scenario recommended

by the PCR for the category of the reference product.

PSR product Category : 3.13. Other equipments

Materials and substances

All useful measures have been adopted to ensure that the materials used in the composition of the product do not contain any substances banned by the legislation in force at the time of marketing.

Plastics			Meta	ls	Others			
	g	%		g	%		g	%
PC	2893.20	31.9%	Copper	375.72	4.1%	Cardboard + Paper	1859.00	20.5%
ABS	1767.50	19.5%	Steel	363.94	4.0%	Glass	116.69	1.3%
PA6	297.67	3.3%	Stainless steel 165.42 1.8%		Tetrabromobisphenol A	36.89	0.4%	
PVC	171.13	1.9%	Steel 121.10 1.3% Cardboard + Paper		34.75	0.4%		
PA66	126.86	1.4%	Ferrites	76.45	0.8%	Calcium Carbonate	16.90	0.2%
Other	382.98	4.2%	Other	195.46	2.2%	Other	60.58	0.7%
Total mass of referen	ce product :		9062.2 g					

Manufacturing

These products are manufactured by a site that has received an environmental certification ISO 14001.

Distribution

The packaging has been designed in accordance with current regulations. In particular, the European directive 94/62/CE relative to packaging and packaging waste.

The used packaging is 100% recyclable or recoverable. Packaging and logistic flows are continuously improved in order to reduce their impact.

Installation

Installation processes

The processes to install the product are not considered in this study because of their weak impact compared to the other life cycles steps.

Installation elements (non delivered with the product) Elements non delivered with the product and needed to install the product are not considered.

Use

For the considered scenario, the product has an average power of 20.184 W in active mode during 5% of the time and 1.700 W in sleep mode during 10% of the time and an average power of 1.700 W in passive mode during 86% of the time. This corresponds to a total energy consumption of 223.403 kWh for the use span of 10 years.

Energy model of the use phase : Europe

Consumables and maintenance : None Considering the complexity and the lack of knowledge of the electric and electronic recycling channel and processes, the standard scenario set in the PCR is considered.

The recycling potential of the product is: 39%. The calculation of this rate is based on the method of the IEC/TR 62635.

Environmental impacts

Evaluation of the environmental impact covers the following life cycle stages: raw materials + manufacturing (RMM), distribution (D), installation (I), use (U) and end of life (EoL).

All calculations are done with EIME software version 5.9.1 with the database version HAGER-CODDE-2018-11 .

PEP representative of the covered products marketed in: Europe

Energy models considered for each phase

Manufacturing	Distribution	Installation	Use	End Of Life
RMM	D	I	U	EoL
Europe	Europe	Europe	Europe	

Environmental impact indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Global Warming	kg CO ₂ eq.	5.17E+01	1.41E+00	2.22E+00	1.09E+02	8.05E-01	1.66E+02
Ozone Depletion	kg CFC-11 eq.	7.04E-06	2.86E-09	5.78E-09	7.13E-06	1.82E-08	1.42E-05
Acidification of soil and water	kg SO2 eq	1.05E-01	6.34E-03	4.62E-04	4.57E-01	2.95E-03	5.71E-01
Eutrophication	kg PO₄³⁻ eq.	1.68E-01	1.46E-03	4.27E-03	2.76E-02	3.11E-03	2.05E-01
Photochemical Ozone Creation	kg C ₂ H ₄ eq.	9.93E-03	4.51E-04	5.37E-04	2.51E-02	2.39E-04	3.62E-02
Depletion of abiotic resources - elements	kg Sb eq	2.11E-02	5.65E-08	4.22E-09	9.51E-06	4.61E-08	2.11E-02
Depletion of abiotic resources – fossil fuels	MJ	6.26E+02	1.98E+01	1.41E+00	1.24E+03	7.79E+00	1.90E+03
Water Pollution	m³	9.96E+03	2.32E+02	1.28E+02	4.52E+03	9.31E+01	1.49E+04
Air Pollution	m³	1.95E+04	5.78E+01	1.16E+01	4.71E+03	8.35E+01	2.43E+04

Resource use indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials		6.74E+01	2.66E-02	5.01E-03	2.78E+02	1.83E-01	3.46E+02
Use of renewable primary energy resources as raw materials	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of renewable primary energy resources	MJ	6.74E+01	2.66E-02	5.01E-03	2.78E+02	1.83E-01	3.46E+02
Use of non-renewable primary energy, excluding non renewable primary energy resources used as raw materials		7.16E+02	1.99E+01	1.53E+00	1.91E+03	8.38E+00	2.65E+03
Use of non-renewable primary energy resources as raw materials	MJ	2.01E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E+02
Total use of non renewable primary energy resources	MJ	9.16E+02	1.99E+01	1.53E+00	1.91E+03	8.38E+00	2.85E+03
Total use of primary energy	MJ	9.84E+02	2.00E+01	1.54E+00	2.19E+03	8.57E+00	3.20E+03
Use of secondary materials	kg	2.20E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net fresh water use	m³	3.50E+00	1.26E-04	6.87E-05	3.97E+02	5.90E-04	4.00E+02

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Waste category indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Hazardous waste disposed	kg	3.07E+01	5.01E-02	1.67E+00	4.08E+02	6.43E+00	4.47E+02
Non-hazardous waste disposed	kg	1.52E+02	0.00E+00	1.68E-03	5.71E-02	5.73E-01	1.53E+02
Radioactive waste disposed	kg	2.89E-02	3.57E-05	8.52E-06	2.73E-01	2.12E-04	3.02E-01

Output flow indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	1.82E+00	0.00E+00	0.00E+00	0.00E+00	1.05E+00	2.87E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Extrapolation rule for "USE" phase:

Reference:	XEV1K11T2TE	XEV1K11T2	XEV1K22T2 XEV1K22T2TE	XEV1K22T2T XEV1K22T2TET	XEV1K04T2	XEV1K22T2TETW	XEV1K07T2 XEV1K07T2TE	XEV1K07T2TETPFR	XEV1K07T2TPFR	XEV1K07T2TW XEV1K07T2TETWPFR
Coef:	0.55	0.56	0.61	0.68	0.72	0.82	0.84	0.89	0.92	1.00

Verification

Pagistration Nº. HACE 00620 V04 01 EN	Drafting Rules PEP–PCR–ed3-2015 04 02				
Registration N°: HAGE-00630-V01.01-EN	Supplemented by PSR-0005-ed2-2016 03 29				
Verifier accreditation N°: VH36	Information and reference documents: www.pep-ecopassport.org				
Date of issue: 5-2021	Validity period: 5 years				
Independent verification of the declaration and data, in compliance wi	th ISO 14025 : 2010				
Internal • External o					
The PCR review was conducted by a panel of experts chaired by Phili	ippe Osset (SOLINNEN)				
PEP are compliant with XP C08-100-1:2014 The elements of the present PEP cannot be compared with elements from another program					
Document in compliance with ISO 14025 : 2010 « Environmental labe declarations »	from another program els and declarations. Type III environmental	s T⊚			

The picture has no contractual value.

All numerical values indicated in this document may vary and depend of many factors such as the tolerance related to materials, the usage and environment conditions of the products, installation