Product Environmental Profile

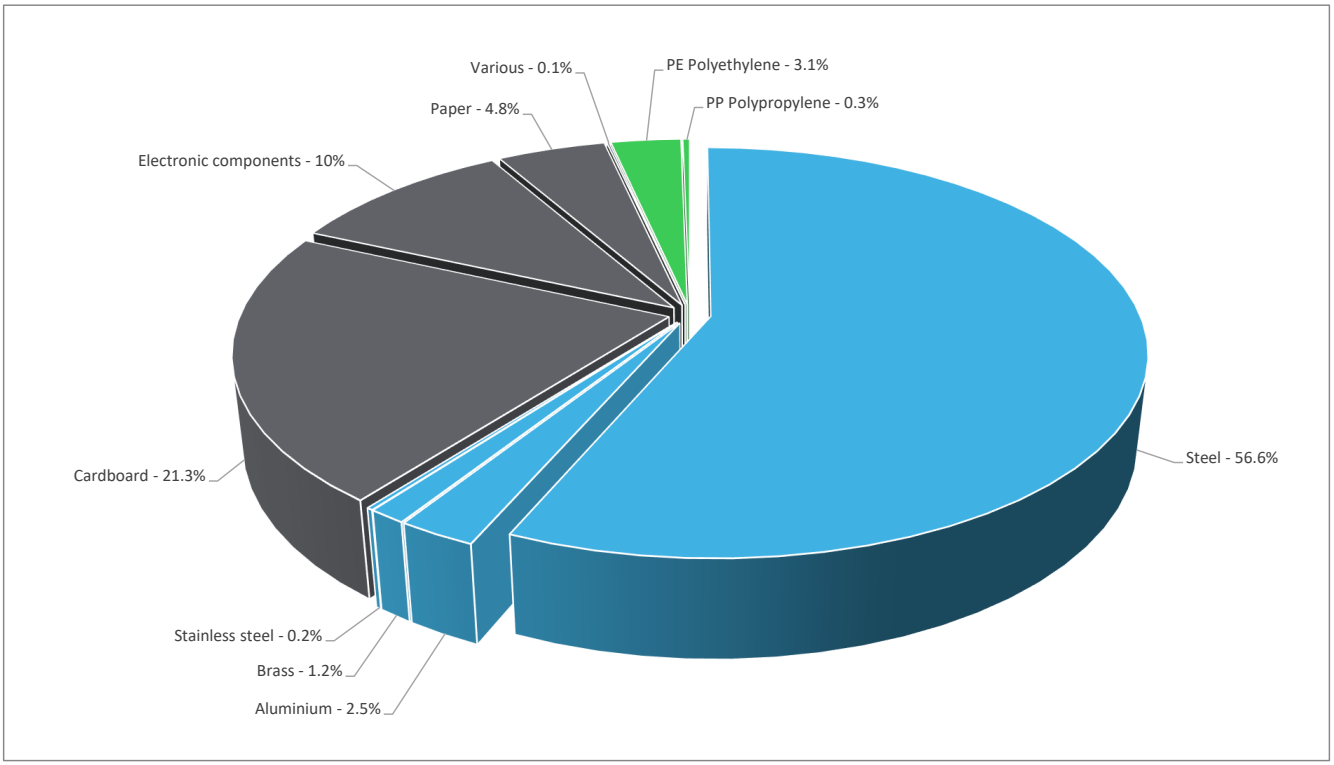
PowerLogic™ HDPM6000 Head Unit

General information

Reference product	PowerLogic™ HDPM6000 Head Unit - METSEHDPM6S480VC
Description of the product	The PowerLogic HDPM6000 Head Unit is a high-density power monitoring solution that acts as both a standalone 3-phase power meter and a hub for branch circuit modules. It monitors loads up to 4000A with utility-grade accuracy, measuring energy, power demand, instantaneous power, current, harmonic, voltage and more - in total or per phases.
Description of the range	The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology.HDPM6000 Head Unit designed for critical power applications in data centers and buildings, it supports open protocols (TCP/IP, Modbus, SNMP, BACnet) for seamless integration with EPMS, DCIM, and BMS systems, and offers daisy-chain connectivity for scalability. The HDPM6000 Head Unit is also sold as different commercial references/model names
Functional unit	To provide accurate multi-circuit electrical measurement and power quality monitoring for systems up to 480 V and 50/60 Hz throughout its expected lifetime, enabling energy management and integration with building and data center management platforms.
Specifications are:	Measurement voltage : 120–480 V AC Rated supply voltage : 24 V DC Frequency: 50/60 Hz Current: Up to 4000 A (via external CTs) Mounting: DIN rail, indoor Operating Temperature : - 20°C to 60°C Compliance: IEC61326-1, EN61326-1:2020

Constituent materials

Reference product mass	1510 g	including the product, its packaging, additional elements and accessories



Plastics	3.4%
Metals	60.5%
Others	36.2%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website
https://www.se.com

Additional environmental information

End Of Life	Recyclability potential:	**84%**	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).

Environmental impacts

Reference service life time	10 years			
Product category	Other equipments - Active product			
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study			
Electricity consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption			
Installation elements	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal)			
Use scenario	The product is in active mode 100% of the time with a power use of 2.832W for 10 years			
Time representativeness	The collected data are representative of the year 2025			
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are similar and representative of the actual type of technologies used to make the product.			
Geographical representativeness	**Final assembly site**	**Use phase**		**End-of-life**
	USA	Global		Global
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Electricity Mix; Low voltage; 2020; China, CN Electricity Mix; Low voltage; 2020; Europe, EU-27 Electricity Mix; Low voltage; 2020; United States, US	No energy used	Electricity Mix; Low voltage; 2020; United States, US Electricity Mix; Low voltage; 2020; Europe, EU-27 Electricity Mix; Low voltage; 2020; Asia Pacific, APAC Electricity Mix; Low voltage; 2020; Australia, AU	Global, European and French datasets are used.

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.se.com/contact

Mandatory Indicators		PowerLogic™ HDPM6000 Head Unit - METSEHDPM6S480VC						
Impact indicators	**Unit**	**Total (without Module D)**	**[A1 - A3] - Manufacturing**	**[A4] - Distribution**	**[A5] - Installation**	**[B1 - B7] - Use**	**[C1 - C4] - End of life**	**[D] - Benefits and loads**
Contribution to climate change	kg CO2 eq	1.83E+02	4.68E+01	1.07E+00	8.32E-01	1.32E+02	1.78E+00	-3.81E+00
Contribution to climate change-fossil	kg CO2 eq	1.82E+02	4.74E+01	1.07E+00	1.78E-01	1.31E+02	1.77E+00	-3.79E+00
Contribution to climate change-biogenic	kg CO2 eq	8.45E-01	-6.54E-01	0*	6.54E-01	8.41E-01	4.43E-03	-2.31E-02
Contribution to climate change-land use and land use change	kg CO2 eq	3.03E-05	2.99E-05	0*	0*	0*	4.54E-07	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	7.28E-06	5.71E-06	9.47E-07	0*	5.76E-07	4.93E-08	-5.71E-07
Contribution to acidification	mol H+ eq	9.46E-01	2.21E-01	4.66E-03	2.31E-04	7.12E-01	7.56E-03	-2.30E-02
Contribution to eutrophication, freshwater	kg P eq	2.87E-04	1.13E-04	1.26E-07	7.64E-08	1.67E-04	7.01E-06	-7.10E-06
Contribution to eutrophication marine	kg N eq	1.33E-01	4.50E-02	2.14E-03	1.03E-04	8.40E-02	1.42E-03	-2.18E-03
Contribution to eutrophication, terrestrial	mol N eq	1.56E+00	4.94E-01	2.32E-02	1.10E-03	1.03E+00	1.59E-02	-2.53E-02
Contribution to photochemical ozone formation - human health	kg COVNM eq	4.22E-01	1.32E-01	7.61E-03	2.54E-04	2.77E-01	4.41E-03	-8.79E-03
Contribution to resource use, minerals and metals	kg Sb eq	8.23E-03	8.21E-03	0*	0*	2.18E-05	0*	-1.04E-03
Contribution to resource use, fossils	MJ	3.30E+03	6.08E+02	1.34E+01	0*	2.66E+03	2.00E+01	-8.35E+01
Contribution to water use	m3 eq	2.35E+01	1.57E+01	5.44E-02	5.04E-02	7.46E+00	2.06E-01	-1.53E+00

Inventory flows Indicators		PowerLogic™ HDPM6000 Head Unit - METSEHDPM6S480VC						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.88E+02	3.09E+01	0*	0*	3.56E+02	1.01E+00	-9.43E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	1.30E+00	1.30E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	3.89E+02	3.22E+01	0*	0*	3.56E+02	1.01E+00	-9.43E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.30E+03	6.04E+02	1.34E+01	0*	2.66E+03	2.00E+01	-8.35E+01
Contribution to use of non renewable primary energy resources used as raw material	MJ	4.63E+00	4.63E+00	0*	0*	0*	0*	-2.72E-03
Contribution to total use of non-renewable primary energy resources	MJ	3.30E+03	6.08E+02	1.34E+01	0*	2.66E+03	2.00E+01	-8.35E+01
Contribution to use of secondary material	kg	3.64E-01	3.64E-01	0*	0*	0*	0*	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to net use of freshwater	m³	5.46E-01	3.63E-01	1.27E-03	1.17E-03	1.74E-01	6.27E-03	-3.55E-02
Contribution to hazardous waste disposed	kg	2.17E+02	2.14E+02	0*	0*	3.02E+00	1.63E-01	-8.24E+01
Contribution to non hazardous waste disposed	kg	3.71E+01	1.48E+01	0*	4.49E-01	2.07E+01	1.08E+00	-3.57E+00
Contribution to radioactive waste disposed	kg	1.20E-02	8.03E-03	2.13E-04	2.09E-06	3.73E-03	5.34E-05	-1.91E-03
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.06E+00	1.62E-01	0*	0*	0*	8.99E-01	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	1.02E-02	1.32E-03	0*	0*	0*	8.88E-03	0.00E+00

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

Contribution to biogenic carbon content of the product	kg of C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg of C	1.17E-01

* The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)

Mandatory Indicators		PowerLogic™ HDPM6000 Head Unit - METSEHDPM6S480VC							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.32E+02	0*	0*	0*	0*	0*	1.32E+02	0*
Contribution to climate change-fossil	kg CO2 eq	1.31E+02	0*	0*	0*	0*	0*	1.31E+02	0*
Contribution to climate change-biogenic	kg CO2 eq	8.41E-01	0*	0*	0*	0*	0*	8.41E-01	0*
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	5.76E-07	0*	0*	0*	0*	0*	5.76E-07	0*
Contribution to acidification	mol H+ eq	7.12E-01	0*	0*	0*	0*	0*	7.12E-01	0*
Contribution to eutrophication, freshwater	kg P eq	1.67E-04	0*	0*	0*	0*	0*	1.67E-04	0*
Contribution to eutrophication marine	kg N eq	8.40E-02	0*	0*	0*	0*	0*	8.40E-02	0*
Contribution to eutrophication, terrestrial	mol N eq	1.03E+00	0*	0*	0*	0*	0*	1.03E+00	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.77E-01	0*	0*	0*	0*	0*	2.77E-01	0*
Contribution to resource use, minerals and metals	kg Sb eq	2.18E-05	0*	0*	0*	0*	0*	2.18E-05	0*
Contribution to resource use, fossils	MJ	2.66E+03	0*	0*	0*	0*	0*	2.66E+03	0*
Contribution to water use	m3 eq	7.46E+00	0*	0*	0*	0*	0*	7.46E+00	0*

Inventory flows Indicators		PowerLogic™ HDPM6000 Head Unit - METSEHDPM6S480VC							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.56E+02	0*	0*	0*	0*	0*	3.56E+02	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	3.56E+02	0*	0*	0*	0*	0*	3.56E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.66E+03	0*	0*	0*	0*	0*	2.66E+03	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	2.66E+03	0*	0*	0*	0*	0*	2.66E+03	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	1.74E-01	0*	0*	0*	0*	0*	1.74E-01	0*
Contribution to hazardous waste disposed	kg	3.02E+00	0*	0*	0*	0*	0*	3.02E+00	0*
Contribution to non hazardous waste disposed	kg	2.07E+01	0*	0*	0*	0*	0*	2.07E+01	0*
Contribution to radioactive waste disposed	kg	3.73E-03	0*	0*	0*	0*	0*	3.73E-03	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	0*	0*	0*	0*	0*

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

Life cycle assessment performed with EIME version v6.3.3-9, database version 2025-04 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided upon request

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

Registration number :	SCHN-02070-V01.01-EN	*Drafting rules*	PEP-PCR-ed4-2021 09 06
		Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Verifier accreditation N°	VH42	*Information and reference documents*	www.pep-ecopassport.org
Date of issue	02-2026	*Validity period*	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006			
Internal	External X		
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
PEPs are compliant with NF C08-100-1:2022 and EN 50693:2019 or NF E38-500 :2022			
The components of the present PEP may not be compared with components from any other program.			
Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"			

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