

Product Environmental Profile

HDPM6000B Busway Metering Module





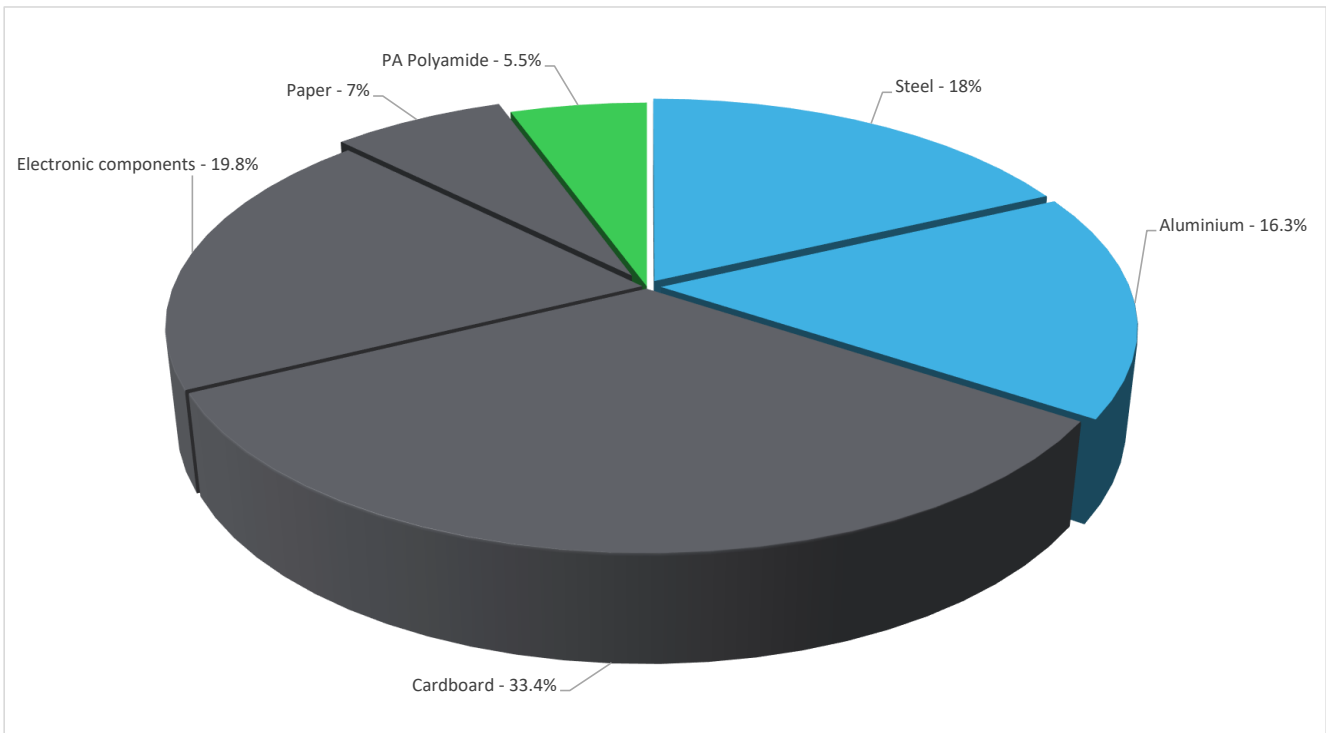
General information

Reference product	HDPM6000B Busway Metering Module - METSEHDPM6BT8
Description of the product	This is an integrated solution for monitoring multi-circuits and power quality by using a single meter. The meter is designed to be modular, directly connectable on a busway tap-off, with an architecture meeting data center requirements in an all-in-one solution. Allow monitoring of loads up to 4000A with utility grade accuracy on all branch channels. This unit is mounted inside a Tap Can and allow measurement of 8 branch circuits. Allow measurement of energy, power demand, instantaneous power, current, harmonic and more - in total or per phases. Devices can be connected in dasy-chain thanks to CAT5 or CAT6 straight-through Ethernet cable. The HDPM6000 series can also maintain multiple, concurrent sessions with EPMS, DCIM or BMS applications via the Modbus, SNMP and BACnet IP protocols. Certified for IEC61326-1 and EN61326-1:2020, related to Industrial Electromagnetic Environment. The system PowerLogic HDPM6000 can help you identify increased harmonics in the rack servers to detect a potential disruption. Thanks to daisy-chain, it is possible to connect additional modules if the head unit capacity isn't exceeded.
Description of the range	The products of the range are: PowerLogic™ HDPM6000 High-Density Metering System 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.
Functional unit	This unit is mounted inside a Tap Can and allow measurement of 8 branch circuits. Allow measurement of energy, power demand, instantaneous power, current, harmonic and more - in total or per phases. Devices can be connected in dasy-chain thanks to CAT5 or CAT6 straight-through Ethernet cable. This module combines upto 24 tap cards (any combination of 4ckt and 8ckt), totalling upto a maxmum of 192circuits in a single chain.



Constituent materials

Reference product mass	929 g including the product, its packaging, additional elements and accessories
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Plastics	5.5%
Metals	34.3%
Others	60.2%



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:	56%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB 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).
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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 any installation operations		
Time representativeness	The collected data are representative of the year 2024		
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	
	United States	United States	
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Low voltage; 2020; United States, US	No energy used	Electricity Mix; Low voltage; 2020; United States, US
			[C1 - C4]
			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		HDPM6000B Busway Metering Module - METSEHDPM6BT8							
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	5.74E+01	2.87E+01	2.68E-01	1.37E-02	2.73E+01	1.05E+00	-2.60E+00	
Contribution to climate change-fossil	kg CO2 eq	5.78E+01	2.93E+01	2.68E-01	1.37E-02	2.72E+01	1.05E+00	-2.53E+00	
Contribution to climate change-biogenic	kg CO2 eq	-4.46E-01	-5.89E-01	0*	0*	0*	0*	-6.11E-02	
Contribution to climate change-land use and land use change	kg CO2 eq	3.92E-06	3.77E-06	0*	0*	0*	1.42E-07	0.00E+00	
Contribution to ozone depletion	kg CFC-11 eq	5.08E-06	4.72E-06	2.38E-07	5.59E-10	1.06E-07	1.76E-08	-3.58E-07	
Contribution to acidification	mol H+ eq	2.75E-01	1.47E-01	1.21E-03	1.89E-04	1.24E-01	2.45E-03	-1.65E-02	
Contribution to eutrophication, freshwater	kg P eq	1.50E-04	9.90E-05	3.16E-08	6.96E-08	4.53E-05	5.23E-06	-8.46E-06	
Contribution to eutrophication, marine	kg N eq	3.26E-02	1.57E-02	5.60E-04	8.94E-05	1.57E-02	6.05E-04	-1.43E-03	
Contribution to eutrophication, terrestrial	mol N eq	3.72E-01	1.73E-01	6.07E-03	9.11E-04	1.85E-01	6.58E-03	-1.59E-02	
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.09E-01	5.36E-02	1.97E-03	2.19E-04	5.18E-02	1.75E-03	-5.36E-03	
Contribution to resource use, minerals and metals	kg Sb eq	4.54E-03	4.53E-03	0*	0*	4.14E-06	0*	-1.95E-04	
Contribution to resource use, fossils	MJ	9.62E+02	3.60E+02	3.35E+00	1.61E-01	5.92E+02	6.52E+00	-4.11E+01	
Contribution to water use	m3 eq	1.29E+01	1.14E+01	1.37E-02	3.33E-02	1.37E+00	8.49E-02	-6.38E-01	

Inventory flows Indicators		HDPM6000B Busway Metering Module - METSEHDPM6BT8							
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 renewable primary energy used as energy	MJ	9.83E+01	2.57E+01	0*	0*	7.22E+01	3.35E-01	-1.39E+00	
Contribution to renewable primary energy used as raw material	MJ	7.24E+00	7.24E+00	0*	0*	0*	0*	0.00E+00	
Contribution to total renewable primary energy	MJ	1.06E+02	3.30E+01	0*	0*	7.22E+01	3.35E-01	-1.39E+00	
Contribution to non renewable primary energy used as energy	MJ	9.58E+02	3.55E+02	3.35E+00	1.61E-01	5.92E+02	6.52E+00	-4.11E+01	
Contribution to non renewable primary energy used as raw material	MJ	4.31E+00	4.31E+00	0*	0*	0*	0*	0.00E+00	
Contribution to total non renewable primary energy	MJ	9.62E+02	3.60E+02	3.35E+00	1.61E-01	5.92E+02	6.52E+00	-4.11E+01	
Contribution to use of secondary material	kg	0.00E+00	0*	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 fresh water	m³	2.99E-01	2.64E-01	3.18E-04	7.75E-04	3.20E-02	2.47E-03	-1.49E-02	
Contribution to hazardous waste disposed	kg	6.22E+01	6.15E+01	0*	0*	5.11E-01	1.82E-01	-1.55E+01	
Contribution to non hazardous waste disposed	kg	1.61E+01	1.14E+01	0*	3.64E-01	4.04E+00	2.94E-01	-3.90E+00	
Contribution to radioactive waste disposed	kg	8.07E-03	7.04E-03	5.36E-05	0*	9.56E-04	1.97E-05	-2.93E-03	
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00	
Contribution to materials for recycling	kg	3.52E-01	4.91E-02	0*	0*	0*	3.03E-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	3.46E-03	4.60E-04	0*	0*	0*	2.99E-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	1.08E-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%)

Life cycle assessment performed with EIME version v6.2.4, database version 2024-01 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 :	ENVPEP2510075_V1-EN	Drafting rules	PEP-PCR-ed4-2021 09 06
Date of issue	10-2025	Supplemented by	PSR-0005-ed3-2023 06 06
		Information and reference documents	www.pep-ecopassport.org
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14021 : 2016			
Internal	X	External	
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
PEPs are compliant with XP C08-100-1:2016 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 14021:2016 "Environmental labels and declarations. Type II environmental declarations"			

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ENVPEP2510075_V1-EN

Published by Schneider Electric

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10-2025