



Eaton xComfort KLV LV Energy Distribution Board with Flat Sheet Steel Door

Representative product	KLV-60UPS-F (302414) Product Category: Unequipped Enclosures and Cabinets
Description of the product	The Eaton KLV empty enclosure is a compact, modular distribution solution designed for residential and Light commercial applications. Engineered for flush or hollow wall mounting, it supports configurations from 1 to 5 rows, accommodating energy, multimedia, and hybrid setups. It offers a sleek and modern solution for residential and commercial installations, featuring elegant flat design.
Homogeneous Environmental Families Covered	The PEP concerns the following product offerings from Eaton KLV LV Energy Board as mentioned below: 178806 (KLV-12HWP-F) 178822 (KLV-12HWS-F) 178798 (KLV-12UPP-F) 178814 (KLV-12UPS-F) 178808 (KLV-24HWP-F) 178824 (KLV-24HWS-F) 178800 (KLV-24UPP-F) 178816 (KLV-24UPS-F) 178810 (KLV-36HWP-F) 178826 (KLV-36HWS-F) 178802 (KLV-36UPP-F) 178818 (KLV-36UPS-F) 178812 (KLV-48HWP-F) 178828 (KLV-48HWS-F) 178804 (KLV-48UPP-F) 178820 (KLV-48UPS-F) 302412 (KLV-60HWP-F) 302416 (KLV-60HWS-F) 302410 (KLV-60UPP-F)
Functional unit	“Protect people from direct contact with live active parts and ensure the grouping of control, command and protection devices in a single enclosure or cabinet having the following dimensions 840mm x 360mm x 100mm, having rated current up to 125A, while protecting them against mechanical impacts (IK05) and

	the penetration of solid objects and liquid (IP30), according to the appropriate use scenario, and for the reference service life of the product of 20 years.”
Company information	Eaton Elektrotechnika, s.r.o, Czechia Email: productstewardship-es@eaton.com

Constituent materials			
Reference product mass	7.44E+00 kg (with packaging)		
Category pep material	Material constituent	Mass (kg)	% contribution
Metals	Steel	4.11E+00	55.3%
Plastics	Polystyrene	2.06E+00	27.6%
Other	Cardboard	4.14E-01	5.6%
Other	Wood	2.33E-01	3.1%
Metals	Copper	1.53E-01	2.1%
Plastics	Polyamide 66	7.51E-02	1.0%
Metals	Zinc	6.57E-02	0.9%
Plastics	Epoxy Resin	5.04E-02	0.7%
Plastics	Polyester Resin	5.04E-02	0.7%
Metals	Stainless Steel	4.47E-02	0.6%
Metals	Titanium Dioxide	4.20E-02	0.6%
Plastics	Polyphenylene Ether (PPE)	3.09E-02	0.4%
Plastics	Polyethylene Low Density (PE-LD)	3.04E-02	0.4%
Plastics	Polycarbonate	2.69E-02	0.4%
Other	Paper	2.08E-02	0.3%
Other	Miscellaneous	3.13E-02	0.4%
Total		7.44E+00	100.0%

Substance Assessment	
The representative product is compliant with the EU-RoHS Directive (2011/65/EU) with exemption and the product contains lead as Substance-of-Very-High-Concern (SVHC) on the Candidate List of the EU-REACH Regulation (1907/2006/EC).	

Additional Environmental Information	
Manufacturing	The reference product is assembled at an Eaton plant Czech Republic holding management system certifications according to ISO 14001 standards.
Distribution	Eaton is committed to minimizing weight and volume of product and packaging with focus to optimize transport efficiency.
Installation	The installation process does not require any energy consumption and there is no waste other than the obsolete product packaging generated during this step.
Use	The product does not require energy consumption during operation.
End of life	The recyclability rate of the overall product is 52.79% if it is properly dismantled prior to shredding. The rate is calculated based on “WEEE recyclability and recoverability calculation method” (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

Environmental Impacts	
<p>The calculation of the environmental impacts is the result of the Product's Life Cycle Analysis in accordance with ISO 14040/44, covering the entire lifecycle, i.e., "Cradle-to-Grave" including the following life cycle phases: production, distribution, installation, use and end of life.</p> <p>System modelling was carried out using the commercial LCA software EIME v6.3.0.1 with database version CODDE-2024-04-Updated on 2024-06-04.</p> <p>Indicators Set: PEF EF 3.1 (Compliance: PEP ed.4, EN15804+A2) v2.0</p>	
Manufacturing Phase	<p>The product is assembled as well as packed at Eaton Elektrotechnika, s.r.o, Czechia.</p> <p>The product is then transported 152 km by a lorry of 27t capacity from plant to distribution center in Czech Republic.</p> <p>Energy model used: Czech Republic</p>
Distribution Phase	Distribution of the product in its packaging from Eaton's last logistics platform to the installation place in Europe is considered as per PCR rules.
Installation Phase	<p>Product is installed in Europe. Installation of product and treatment of packaging waste are considered in this phase. There is no energy consumption for reference products.</p> <p>Energy model used: Europe</p>
Use Phase	<p>Reference lifetime: 20 Years</p> <p>Usage profile: The product does not have any use phase.</p>
End of life Phase	<p>Product disposed of with WEEE guidelines.</p> <p>Energy model used: Europe</p>
Module-D	Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modelled end-of-life scenario. It expresses the net benefits and loads beyond the boundaries of the system and are not to be included in the life cycle totals.

Environmental Impact Indicators: Mandatory

Mandatory environmental impact indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	D - Benefits and loads beyond the system boundaries
Climate change – total (GWP)	kg CO2 eq.	5.35E+01	4.03E+01	1.67E+00	1.24E+00	0.00E+00	1.03E+01	-1.30E+01
Climate change - fossil fuels (GWP-f)	kg CO2 eq.	5.37E+01	4.11E+01	1.67E+00	6.85E-01	0.00E+00	1.03E+01	-1.35E+01
Climate change – biogenics (GWP-b)	kg CO2 eq.	-2.13E-01	-7.85E-01	6.84E-06	5.52E-01	0.00E+00	1.95E-02	5.39E-01
Climate change - land use and land use transformation (GWP-lu)	kg CO2 eq.	4.33E-05	3.98E-05	2.53E-06	9.60E-09	0.00E+00	9.44E-07	0.00E+00
Ozone depletion (ODP)	kg eq. CFC-11	7.76E-07	6.07E-07	2.03E-08	7.99E-09	0.00E+00	1.41E-07	-2.06E-06
Acidification (AP)	mole of H+ eq.	2.22E-01	1.76E-01	2.64E-03	1.65E-03	0.00E+00	4.18E-02	-9.42E-02
Freshwater eutrophication (EP-fw)	kg P eq.	1.46E-03	4.72E-04	6.24E-06	7.23E-06	0.00E+00	9.74E-04	-2.96E-05
Marine aquatic eutrophication (EP-m)	kg of N eq.	3.15E-02	2.30E-02	4.79E-04	6.96E-04	0.00E+00	7.34E-03	-8.52E-03
Terrestrial eutrophication (EP-t)	mole of N eq.	3.53E-01	2.58E-01	5.25E-03	4.92E-03	0.00E+00	8.46E-02	-9.69E-02

Mandatory environmental impact indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	D - Benefits and loads beyond the system boundaries
Photochemical ozone formation (POCP)	kg of NMVO C eq.	1.20E-01	8.96E-02	1.70E-03	1.18E-03	0.00E+00	2.77E-02	-3.41E-02
Depletion of abiotic resources – elements (ADPe)	kg eq. Sb	4.29E-04	3.99E-04	5.96E-07	1.77E-08	0.00E+00	2.99E-05	-4.19E-03
Depletion of abiotic resources - fossil fuels (ADP-f)	MJ	2.55E+03	1.80E+03	2.97E+01	5.63E+00	0.00E+00	7.18E+02	-3.11E+02
Water scarcity (WDP)	m3 of eq.. deprivation worldwide	1.43E+01	1.00E+01	6.02E-02	3.50E-02	0.00E+00	4.16E+00	-6.02E+00

Inventory Flow Indicators: Mandatory

Inventory flow indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	D - Benefits and loads beyond the system boundaries
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	7.06E+00	3.84E+00	9.36E-02	1.72E+00	0.00E+00	1.41E+00	-1.33E+00
Use of renewable primary energy resources used as raw materials	MJ	1.19E+01	1.19E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.49E+00
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	1.90E+01	1.57E+01	9.36E-02	1.72E+00	0.00E+00	1.41E+00	-8.82E+00
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	2.46E+03	1.70E+03	2.97E+01	5.63E+00	0.00E+00	7.18E+02	-3.10E+02
Use of non-renewable primary energy resources used as raw materials	MJ	9.60E+01	9.60E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-5.87E-01
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	2.55E+03	1.80E+03	2.97E+01	5.63E+00	0.00E+00	7.18E+02	-3.11E+02

Inventory flow indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	D - Benefits and loads beyond the system boundaries
Use of secondary materials	kg	1.03E-03	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+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	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	0.00E+00
Net use of fresh water	m3	3.33E-01	2.34E-01	1.40E-03	8.49E-04	0.00E+00	9.75E-02	-1.40E-01
Hazardous waste disposed of	kg	3.75E+01	2.95E+01	6.99E-03	6.55E-02	0.00E+00	7.84E+00	-3.30E+02
Non-hazardous waste disposed of	kg	4.99E+00	3.33E+00	1.55E-01	2.66E-01	0.00E+00	1.24E+00	-1.07E+01
Radioactive waste disposed of	kg	7.67E-04	4.93E-04	1.23E-04	3.03E-05	0.00E+00	1.21E-04	-4.83E-03
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	5.02E+00	1.48E+00	0.00E+00	8.48E-02	0.00E+00	3.46E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ by energy vector	8.23E-02	5.08E-03	0.00E+00	7.72E-02	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the product	kg of C.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the associated packaging	kg of C.	2.78E-01	2.78E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Environmental Impact Indicators: Optional

Optional Environmental impact indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	D - Benefits and loads beyond the system boundaries
Emission of fine particles	incidence of diseases	1.31E-06	1.05E-06	2.26E-08	1.02E-08	0.00E+00	2.28E-07	-7.09E-06
Ionizing radiation, human health	kBq of U235 eq.	9.98E+01	9.92E+01	5.91E-02	9.79E-02	0.00E+00	4.92E-01	-2.74E+01
Ecotoxicity, fresh water	CTUe	1.47E+03	1.38E+03	4.88E+01	7.93E+00	0.00E+00	3.99E+01	-5.22E+01
Human toxicity, cancer effects	CTUh	4.47E-06	4.41E-06	3.27E-10	4.97E-08	0.00E+00	2.17E-09	-4.76E-05
Human toxicity, non-cancer effects	CTUh	1.54E-06	1.38E-06	6.24E-09	1.85E-09	0.00E+00	1.60E-07	-1.09E-06
Impacts related to land use/soil quality	-	3.08E+00	1.00E+00	7.15E-03	2.29E-03	0.00E+00	2.07E+00	-9.67E-03
Total use of primary energy during the life cycle	MJ	2.57E+03	1.82E+03	2.98E+01	7.35E+00	0.00E+00	7.20E+02	-3.19E+02

To evaluate the environmental impact of other products covered by this PEP, multiply the impact figures by-


Factors for Manufacturing, Distribution, Installation, End-of-Life, and Module-D Phase:

Product Number	Product Name	Phases	GWP	GWP-f	GWP-b	GWP-lu	ODP	AP	Ep-fw	Ep-m	Ep-t	POCP	ADP-e	ADP-f	WDP
302414	KLV-60UPS-F	Manufacturing	1.00												
		Distribution													
		Installation													
		End of Life													
		Module-D													
302410	KLV-60UPP-F	Manufacturing	1.02	1.01	1.01	1.03	0.98	0.99	0.98	0.99	0.99	1.00	0.98	1.02	1.01
		Distribution	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01
		Installation	1.00	1.01	1.00	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01
		End of Life	1.02	1.02	0.99	1.00	1.02	1.01	1.01	1.02	1.02	1.02	1.02	1.02	1.02
		Module-D	1.02	1.02	0.99	1.00	1.02	1.01	1.01	1.02	1.02	1.02	1.02	1.02	1.02
302412	KLV-60HWP-F	Manufacturing	0.99	0.99	1.00	0.99	1.01	1.00	1.01	1.00	1.00	1.00	1.01	0.99	1.00
		Distribution	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
		Installation	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
		End of Life	0.99	0.99	1.00	1.00	0.99	1.00	1.00	0.99	0.99	0.99	0.99	0.99	0.99
		Module-D	0.99	0.99	1.00	1.00	0.99	1.00	0.99	0.99	0.99	0.99	0.99	0.99	0.99
302416	KLV-60HWS-F	Manufacturing	0.99	0.99	1.00	0.99	1.01	1.00	1.01	1.00	1.00	1.00	1.01	0.99	1.00
		Distribution	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
		Installation	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
		End of Life	0.99	0.99	1.00	1.00	0.99	1.00	1.00	0.99	0.99	0.99	0.99	0.99	0.99
		Module-D	0.99	0.99	1.00	1.00	0.99	1.00	0.99	0.99	0.99	0.99	0.99	0.99	0.99
178804	KLV-48UPP-F	Manufacturing	0.63	0.63	0.46	0.81	1.14	0.97	1.15	0.98	0.97	0.89	1.16	0.53	0.76
		Distribution	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
		Installation	0.73	0.72	0.74	0.72	0.68	0.69	0.70	0.68	0.69	0.69	0.69	0.69	0.69
		End of Life	0.50	0.52	1.11	1.00	0.55	0.65	0.67	0.57	0.56	0.57	0.51	0.51	0.55
		Module-D	0.49	0.51	1.04	1.00	0.53	0.62	0.65	0.55	0.54	0.55	0.49	0.50	0.53
178820	KLV-48UPS-F	Manufacturing	0.63	0.63	0.46	0.81	1.14	0.97	1.15	0.98	0.97	0.89	1.16	0.53	0.76
		Distribution	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
		Installation	0.73	0.72	0.74	0.72	0.68	0.69	0.70	0.68	0.69	0.69	0.69	0.69	0.69
		End of Life	0.50	0.52	1.11	1.00	0.55	0.65	0.67	0.57	0.56	0.57	0.51	0.51	0.55
		Module-D	0.49	0.51	1.04	1.00	0.53	0.62	0.65	0.55	0.54	0.55	0.49	0.50	0.53
178812	KLV-48HWP-F	Manufacturing	0.63	0.63	0.45	0.82	1.13	0.96	1.14	0.97	0.97	0.88	1.15	0.53	0.75
		Distribution	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
		Installation	0.72	0.71	0.73	0.71	0.68	0.68	0.69	0.68	0.68	0.69	0.69	0.68	0.68
		End of Life	0.50	0.52	1.10	1.00	0.54	0.65	0.67	0.57	0.56	0.57	0.51	0.51	0.55
		Module-D	0.48	0.51	1.03	1.00	0.53	0.61	0.64	0.55	0.54	0.55	0.49	0.49	0.53
178828	KLV-48HWS-F	Manufacturing	0.63	0.63	0.45	0.82	1.13	0.96	1.14	0.97	0.97	0.88	1.15	0.53	0.75
		Distribution	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
		Installation	0.72	0.71	0.73	0.71	0.68	0.68	0.69	0.68	0.68	0.69	0.69	0.68	0.68
		End of Life	0.50	0.52	1.10	1.00	0.54	0.65	0.67	0.57	0.56	0.57	0.51	0.51	0.55
		Module-D	0.48	0.51	1.03	1.00	0.53	0.61	0.64	0.55	0.54	0.55	0.49	0.49	0.53
178802	KLV-36UPP-F	Manufacturing	0.57	0.57	0.29	0.97	0.95	0.79	0.88	0.81	0.80	0.74	0.90	0.49	0.66
		Distribution	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
		Installation	0.60	0.61	0.59	0.60	0.60	0.60	0.61	0.60	0.60	0.60	0.60	0.60	0.60
		End of Life	0.45	0.47	0.96	1.00	0.49	0.56	0.60	0.51	0.50	0.51	0.46	0.46	0.49
		Module-D	0.44	0.46	0.90	1.00	0.47	0.53	0.58	0.49	0.48	0.49	0.45	0.45	0.47
178818	KLV-36UPS-F	Manufacturing	0.56	0.55	0.25	0.99	0.89	0.73	0.80	0.76	0.75	0.70	0.82	0.48	0.63
		Distribution	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
		Installation	0.87	0.86	0.90	0.86	0.82	0.82	0.83	0.81	0.82	0.83	0.83	0.82	0.82
		End of Life	0.43	0.45	0.86	1.00	0.46	0.50	0.56	0.48	0.47	0.47	0.43	0.44	0.46

Product Number	Product Name	Phases	GWP	GWP-f	GWP-b	GWP-lu	ODP	AP	Ep-fw	Ep-m	Ep-t	POCP	ADP-e	ADP-f	WDP	
		Module-D	0.43	0.45	0.86	1.00	0.46	0.50	0.56	0.48	0.47	0.47	0.43	0.44	0.46	
178810	KLV-36HWP-F	Manufacturing	0.57	0.57	0.29	0.97	0.94	0.78	0.87	0.80	0.79	0.73	0.89	0.49	0.65	
		Distribution	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
		Installation	0.59	0.60	0.58	0.60	0.59	0.60	0.60	0.61	0.60	0.59	0.60	0.60	0.60	0.60
		End of Life	0.45	0.47	0.95	1.00	0.49	0.55	0.60	0.60	0.51	0.50	0.50	0.46	0.46	0.49
		Module-D	0.44	0.46	0.90	1.00	0.47	0.52	0.58	0.49	0.48	0.49	0.49	0.44	0.45	0.47
178826	KLV-36HWS-F	Manufacturing	0.57	0.57	0.29	0.97	0.94	0.78	0.87	0.80	0.79	0.73	0.89	0.49	0.65	
		Distribution	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
		Installation	0.59	0.60	0.58	0.60	0.59	0.60	0.60	0.61	0.60	0.59	0.60	0.60	0.60	0.60
		End of Life	0.45	0.47	0.95	1.00	0.49	0.55	0.60	0.60	0.51	0.50	0.50	0.46	0.46	0.49
		Module-D	0.44	0.46	0.90	1.00	0.47	0.52	0.58	0.49	0.48	0.49	0.49	0.44	0.45	0.47
178800	KLV-24UPP-F	Manufacturing	0.50	0.49	0.16	1.02	0.70	0.58	0.58	0.60	0.60	0.56	0.60	0.44	0.53	
		Distribution	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
		Installation	0.47	0.50	0.43	0.49	0.51	0.52	0.53	0.52	0.51	0.51	0.51	0.51	0.52	0.53
		End of Life	0.41	0.42	0.76	1.00	0.43	0.45	0.51	0.44	0.43	0.43	0.43	0.41	0.41	0.43
		Module-D	0.40	0.41	0.72	1.00	0.41	0.43	0.49	0.43	0.42	0.42	0.42	0.39	0.40	0.41
178816	KLV-24UPS-F	Manufacturing	0.50	0.49	0.16	1.02	0.70	0.58	0.58	0.60	0.60	0.56	0.60	0.44	0.53	
		Distribution	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
		Installation	0.47	0.50	0.43	0.49	0.51	0.52	0.53	0.52	0.51	0.51	0.51	0.51	0.52	0.53
		End of Life	0.41	0.42	0.76	1.00	0.43	0.45	0.51	0.44	0.43	0.43	0.43	0.41	0.41	0.43
		Module-D	0.40	0.41	0.72	1.00	0.41	0.43	0.49	0.43	0.42	0.42	0.42	0.39	0.40	0.41
178808	KLV-24HWP-F	Manufacturing	0.50	0.49	0.16	1.01	0.70	0.57	0.57	0.60	0.59	0.56	0.60	0.44	0.53	
		Distribution	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
		Installation	0.46	0.49	0.43	0.49	0.51	0.52	0.52	0.52	0.51	0.51	0.51	0.51	0.52	0.52
		End of Life	0.40	0.42	0.75	1.00	0.43	0.45	0.51	0.44	0.43	0.43	0.43	0.40	0.41	0.42
		Module-D	0.39	0.41	0.71	1.00	0.41	0.43	0.49	0.43	0.42	0.42	0.42	0.39	0.40	0.41
178824	KLV-24HWS-F	Manufacturing	0.50	0.49	0.16	1.01	0.70	0.57	0.57	0.60	0.59	0.56	0.60	0.44	0.53	
		Distribution	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
		Installation	0.46	0.49	0.43	0.49	0.51	0.52	0.52	0.52	0.51	0.51	0.51	0.51	0.52	0.52
		End of Life	0.40	0.42	0.75	1.00	0.43	0.45	0.51	0.44	0.43	0.43	0.43	0.40	0.41	0.42
		Module-D	0.39	0.41	0.71	1.00	0.41	0.43	0.49	0.43	0.42	0.42	0.42	0.39	0.40	0.41
178798	KLV-12UPP-F	Manufacturing	0.38	0.37	0.07	0.88	0.43	0.35	0.30	0.38	0.37	0.36	0.32	0.34	0.37	
		Distribution	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
		Installation	0.33	0.38	0.27	0.37	0.42	0.43	0.43	0.43	0.42	0.41	0.42	0.43	0.44	
		End of Life	0.32	0.33	0.50	1.00	0.33	0.32	0.38	0.33	0.33	0.33	0.33	0.32	0.32	0.32
		Module-D	0.31	0.32	0.48	1.00	0.32	0.31	0.37	0.33	0.32	0.32	0.32	0.31	0.31	0.32
178814	KLV-12UPS-F	Manufacturing	0.38	0.38	0.07	0.89	0.45	0.36	0.31	0.39	0.38	0.37	0.33	0.35	0.38	
		Distribution	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
		Installation	0.43	0.46	0.39	0.46	0.49	0.50	0.50	0.50	0.49	0.49	0.49	0.50	0.50	
		End of Life	0.32	0.32	0.50	1.00	0.32	0.31	0.37	0.33	0.33	0.33	0.32	0.31	0.32	0.32
		Module-D	0.32	0.32	0.50	1.00	0.32	0.31	0.37	0.33	0.33	0.33	0.32	0.31	0.32	0.32
178806	KLV-12HWP-F	Manufacturing	0.37	0.37	0.06	0.88	0.43	0.35	0.30	0.37	0.37	0.36	0.32	0.34	0.37	
		Distribution	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
		Installation	0.33	0.37	0.27	0.37	0.42	0.43	0.43	0.43	0.42	0.41	0.42	0.43	0.44	
		End of Life	0.32	0.32	0.50	1.00	0.33	0.31	0.38	0.33	0.33	0.33	0.33	0.31	0.32	0.32
		Module-D	0.31	0.32	0.48	1.00	0.32	0.30	0.37	0.32	0.32	0.32	0.32	0.31	0.31	0.31
178822	KLV-12HWS-F	Manufacturing	0.37	0.37	0.06	0.88	0.43	0.35	0.30	0.37	0.37	0.36	0.32	0.34	0.37	
		Distribution	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
		Installation	0.33	0.37	0.27	0.37	0.42	0.43	0.43	0.43	0.42	0.41	0.42	0.43	0.44	
		End of Life	0.32	0.32	0.50	1.00	0.33	0.31	0.38	0.33	0.33	0.33	0.33	0.31	0.32	0.32
		Module-D	0.31	0.32	0.48	1.00	0.32	0.30	0.37	0.32	0.32	0.32	0.32	0.31	0.31	0.31

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Independent verification of the declaration and data, in compliance with ISO 14025: 2006			
Internal	X	External	
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
<i>PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019</i>			
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