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Material Declaration of Compliance (M-DoC)

- **European DIRECTIVE 2011/65/EU (RoHS II)**
- **Chinese MIIT Order 32 (China-RoHS 2)**
- **European REACH REGULATION (EC)1907/2006**
- **European POP REGULATION (EU) 2019/1021**
- **U.S. EPA TSCA Section 6(h) - PBTs**
- **U.S. EPA TSCA Section 8(a)(7) – PFAS and General PFAS Supply Chain Information**
- **California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)**
- **PULS Statement regarding requirement "Asbestos-Free" devices**
- **PULS Statement regarding requirement "Halogen-Free" devices**
- **European REGULATION (EU) 2025/40 on packaging and packaging waste (PPWR) and Commission DECISION 97/129/EC on packaging identification**

PULS Sales-number / Model Designation
CP20.241-R1

European DIRECTIVE 2011/65/EU (RoHS II)

The declared device meets regulations regarding the restriction in the use of certain hazardous substances in electrical and electronic equipment according the DIRECTIVE 2011/65/EU (RoHS II) amended by DIRECTIVE (EU) 2017/2102.

The RoHS II conformity of the declared device has been in effect since the date of market launch and at the earliest when DIRECTIVE 2011/65/EU come into force.

The declared device meets the restricted substances referred to in Article 4 (1) and maximum concentration values by weight of homogeneous materials according to Annex II.

Annex II to the Directive 2011/65/EU was amended by DIRECTIVE (EU) 2015/863. PULS confirms compliance with these additional substance restrictions.

Applications exempted from the restriction in Article 4(1) according to Annex III are:

07a, 07c-I, 34

Note: The technical documentation as proof of compliance with the applicable RoHS DIRECTIVE 2011/65/EU is given in accordance with *EN IEC 63000:2018 (Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances).*

Chinese MIIT Order 32 (China-RoHS 2)

The declared device meets the Measures for Restriction of the Use of Hazardous Substances in Electrical & Electronic Products Order No. 32 (China-RoHS II) of the Chinese Ministry of Industry and Information Technology (MIIT).

Hazardous Substance Control Table in compliance with Chinese SJ/T 11364-2024 for the declared device.

部件名称 **Part Name**	有毒有害物质或元素 **Toxic or hazardous Substances and Elements**									
	铅 Lead (Pb)	汞 Mer-cury (Hg)	镉 Cad-mium (Cd)	六价铬 Hexa-valent Chromi-um (Cr (VI))	多溴联苯 Poly-bromi-nated biphenyls (PBB)	多溴二苯醚 Poly-bromi-nated diphenyl ethers (PBDE)	邻苯二甲酸二（2-乙基）己酯 Di(2-eth-ylhexyl) phtha-late (DEHP)	邻苯二甲酸丁基苄基酯 Butyl benzyl phtha-late (BBP)	邻苯二甲酸二丁酯 Dibutyl phtha-late (DBP)	邻苯二甲酸二异丁酯 Di-isobutyl phtha-late (DIBP)
Printed Cir-cuit Boards Assemblies	X	O	O	O	O	O	O	O	O	O
Housing Body	O	O	O	O	O	O	O	O	O	O
Housing Cover	O	O	O	O	O	O	O	O	O	O
Terminals	O	O	O	O	O	O	O	O	O	O
Labels	O	O	O	O	O	O	O	O	O	O
DIN-Rail-Holder	O	O	O	O	O	O	O	O	O	O
DIN-Rail-Slider	O	O	O	O	O	O	O	O	O	O

O: 表示该有害物质在该部件所有均质材料中的含量均低于 GB/T 26572-2019 规定的限量要求。
O: Indicates that the concentration of the hazardous substance in all homogeneous materials of the part is below the limit requirement of GB/T 26572-2019.

X: 表示该有害物质在该部件的至少一种均质材料中的含量超过 GB/T 26572-2019 规定的限量要求。
X: Indicates that the concentration of the hazardous substance in at least one homogeneous material of the part exceeds the limit requirement of GB/T 26572-2019.

环保期限（EFUP ）的产品及其部件是每个列出的符号，除非另有标明。使用期限只适用于产品在产品手册中规定的条件下工作
The Environmentally Friendly Period (EFUP) for the product and its parts are per the symbol listed, unless otherwise marked. The Period of use is valid only when the product is operated within the conditions defined in the product manual.

The EFUP of the declared device is 25 years.
The unit is marked with following EFUP symbol:

The product is marked with the corresponding Environmental Protection Use Period symbol (e-marking) in accordance with China RoHS 2 requirements. The EFUP is valid under the operating conditions specified in the product documentation. The product contains at least one hazardous substance but can be used safely during the Environmental Protection Use Period. After expiry of this period, the product should be recycled or disposed of properly.

European REACH Regulation (EC) 1907/2006

As a manufacturer of electronic power supplies, PULS GmbH is a "downstream user" with regards to the Regulation for the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Therefore, PULS is providing information only on non-chemical articles (products). In principle, PULS GmbH is not subject to any obligation to register or to compile material safety data sheets.

PULS hereby confirms that its electronic power supplies comply with the legal obligations regarding Article 33 and the restrictions outlined in Annex XVII of the European REACH Regulation 1907/2006 which came into force on 01.06.2007.

PULS and its suppliers will continuously review the actual ECHA "Candidate List" for additions and updates and act accordingly in compliance with REACH regulations. The actual candidate list is provided on the European Chemicals Agency website at:

https://echa.europa.eu/candidate-list-table

The information requirement of REACH Article 33 is met by considering the ECJ-Judgment (Case C-106/14) for calculating the SVHC content in articles.

The SVHC weight calculation is done in recommendation according to the - ECHA Guidance on requirements for substances in articles.

Within PULS supply chain the company received the following REACH Article 33 information that the declared device contains component(s) with the following SVHC (Article 59) listed substances >0.1% by weight.

Article Group	SVHC listed substances > 0.1 % by weight / EC / CAS
Electronic Component(s) Insulation Tape	Lead / 231-100-4 / 7439-92-1 DBDPE / 284-366-9 / 84852-53-9

SCIP-ID	f760166b-18de-4e5d-9319-2d7bca7f8bce

From PULS supply chain there is currently no information that material safety data sheets must be made available for the declared device.

PULS will replace SVHC listed substances with alternative solutions as far as is technically and economically feasible.

Note: The technical documentation as proof of compliance with the applicable REACH Regulation 1907/2006 is given in accordance with *EN IEC 63000:2018 (Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances).*

European POP REGULATION (EU) 2019/1021

PULS confirms compliance with Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants (POP).

Based on current information and supplier declarations, the declared device does not contain any substances listed in Annex I of the POP Regulation. Furthermore, no exemptions pursuant to Article 4 of the Regulation are used in the declared device.

Note: The technical documentation demonstrating compliance with the POP Regulation (EU) 2019/1021 is compiled in accordance with EN IEC 63000:2018 (Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances).

U.S. EPA TSCA Section 6(h) - PBTs

The United States Environmental Protection Agency (EPA) requires under the Toxic Substances Control Act (TSCA) Section 6(h) restrictions and information obligation regarding the 5 PBT substances.

For the declared device there is to-date no evidence within our supply chain that our products contain articles with prohibited PBT substances listed in TSCA Section 6(h).

Note: The technical documentation as proof of compliance with the applicable TSCA Section 6(h) (USA) is given in accordance with *IEC 63000:2018 (Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances).*

U.S. EPA TSCA Section 8(a)(7) – PFAS and General PFAS Supply Chain Information

PULS is not a manufacturer of PFAS substances. PFAS information in this M-DoC is based on supplier declarations and, where necessary, on technical or scientifically based information sources in accordance with the principles of IEC 63000.

PULS complies with applicable reporting obligations under U.S. EPA TSCA Section 8(a)(7) based on information that is known or reasonably ascertainable.

Where suppliers confirm the presence of PFAS substances and provide substance-specific information, this information is listed below. Where suppliers confirm PFAS presence but do not disclose further details, PFAS is declared based on the available information only.

The PFAS information below reflects the current state of knowledge available to PULS at the date of issue of this M-DoC and will be updated if additional relevant information becomes available.

Component / article group	**Function / application**	**Substance / group**	**CAS-No**	**Concentration ppm w/w / reference basis**	**Quantity per device (g)**	**PFAS Substitution Status**	**Source**
KR-Relays	unknown	Polytetrafluoroethylene (PTFE)	9002-84-0	unknown	0.032	Currently not technically substitutable	Supplier Declaration

Note: Quantitative values shown are typical values based on current knowledge and do not constitute exact material composition data. The absence of PFAS entries shall not be interpreted as analytical confirmation of absence of all PFAS substances.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This PULS declared device may contain one or more substances listed under California Proposition 65 (Title 27, California Code of Regulations). As required under Proposition 65, we hereby inform our business customers (B2B) in the state of California that such substances may be present above the regulatory thresholds. In accordance with Section 25607.1 of the regulation, we provide this written notice to comply with Proposition 65 requirements for business-to-business transactions. No product labeling is required when such notice is properly communicated and acknowledged.

A current list of Proposition 65 substances can be found at: https://www.p65warnings.ca.gov/chemicals

The following substance(s) may be present in this product:

Substance	CAS Number	Application Context
Lead (Pb)	7439-92-1	Solder joints / component leadframes

These substances are encapsulated or present in solid form, and no significant exposure is expected under normal handling and use. This information is provided in good faith and based on the best available data from our suppliers.

PULS Statement regarding requirement "Asbestos-Free" devices

The **declared device is "asbestos free"** as regulated by the REACH Regulation (EC)1907/2006.

Note: The technical documentation as proof of compliance with the applicable REACH Regulation 1907/2006 is given in accordance with *EN IEC 63000:2018 (Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances).*

PULS Statement regarding requirement "Halogen-Free" devices

Based on IEC 61249-2-21, PULS GmbH declares its devices as halogen-free if the total concentration of halogens in the device does not exceed 1500 ppm.

The halogen content of the device declared here is **more than 1500 ppm** in relation to the total weight of the device. The device is therefore declared as - **containing halogens** - with the halogen content specified below in relation to the **total weight of the device**.

Bromine (in ppm)	Chlorine (in ppm)	Fluorine (in ppm)
2349	217	843

Note: The technical documentation as proof of halogen-free compliance based on IEC 63000:2018 (Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances).

European REGULATION (EU) 2025/40 on packaging and packaging waste (PPWR) and Commission DECISION 97/129/EC on packaging identification

This section refers exclusively to the product-specific original primary packaging of the declared device.

Secondary and/or tertiary packaging materials may vary depending on delivery quantity, mode of transport, logistics requirements, customer-specific packaging requirements or shipment configuration and are therefore not included in this product-specific packaging declaration.

This packaging-related declaration is based on currently available packaging specifications, supplier declarations, material information and internal packaging documentation for the original primary packaging.

The original primary packaging of the declared device is used for packaging, handling, storage, product identification and protection of industrial power supplies. It may consist of paper/cardboard-based packaging components and, where applicable, plastic packaging components such as ESD bags, accessory bags, labels or packaging tape.

The detailed technical documentation and conformity assessment for the packaging are maintained in the applicable internal packaging documentation.

The following PPWR requirements have been assessed for the original primary packaging:

PPWR article	**Requirement**	**Declaration status for the original primary packaging**
Article 5	Substances in packaging	Substances in packaging The original primary packaging materials are assessed with regard to substance restrictions applicable to packaging, including heavy metals and PFAS where relevant. The sum of concentration levels of lead, cadmium, mercury and hexavalent chromium in the packaging or packaging components does not exceed 100 mg/kg. Based on currently available supplier and material information, there is no indication that PFAS substances are intentionally added to the listed primary packaging materials. Supporting evidence is based on supplier declarations, material specifications and/or test reports.
Article 6	Recyclable packaging	The original primary packaging is assessed with regard to recyclability. Paper/cardboard-based components are assigned to the paper/cardboard material stream. Plastic packaging components, if used, are declared separately in the packaging material table.
Article 7	Minimum recycled content in plastic packaging	No PPWR minimum recycled-content quota is declared as fulfilled as of 12 August 2026. For plastic packaging components, if used, the available recycled-content information is stated in the packaging material table.
Article 8	Bio-based feedstock in plastic packaging	This requirement is not declared as applicable for the standard paper/cardboard-based original primary packaging, unless bio-based plastic packaging components are explicitly listed in the packaging material table.
Article 9	Compostable packaging	This requirement is not declared as applicable for the original primary packaging of industrial power supplies unless compostable packaging components are explicitly listed in the packaging material table.

PPWR article	Requirement	Declaration status for the original primary packaging
Article 10	Packaging minimisation	The original primary packaging is designed to be limited to the minimum necessary weight and volume required for product protection, transport safety, handling, storage and provision of required product information.
Article 11	Reusable packaging	The original primary packaging is not designed or placed on the market as reusable packaging, unless expressly stated otherwise.
Article 12	Labelling of packaging	Material identification codes are provided in accordance with Commission Decision 97/129/EC where applicable. Additional PPWR labelling requirements will be implemented in accordance with the applicable timelines and implementing or delegated acts.

The following table shows the main separable packaging materials used for the original primary packaging of the declared device.

Printing inks, adhesives, coatings or labels are included where they are inseparable from the listed packaging components and are not declared as separate packaging components.

Packaging part name	Material name	Packaging code	Weight (g)	Recycled content (%)	Basis / source of information
Box inlay	PAP Corrugated fibreboard	20-PAP	73.8	not specified	Supplier declaration
Installation manual	Paper	22-PAP	6.0	not specified	Material Specification
Folding Cardboard	PAP Corrugated fibreboard	20-PAP	54.0	not specified	Supplier declaration

The absence of an entry for recycled content shall not be interpreted as confirmation that no recycled content is present. It means that no confirmed recycled-content information is available from the supplier or internal documentation at the date of issue of this M-DoC.

RoHS requirements are considered not applicable to the listed primary packaging materials, unless a packaging component itself falls within the scope of electrical and electronic equipment.

Based on currently available supplier and material information, there is no indication that the listed primary packaging materials contain REACH SVHC above the applicable reporting threshold or substances restricted under REACH Annex XVII or the POP Regulation.

Name and address of the responsible manufacturer

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Germany

Friedrich Haunschild*

Expert Material Compliance

**The M-DoC is valid with electronical signature.*

Validity and Updates of this Material Declaration of Compliance (M-DoC)

This M-DoC reflects the latest available information from our supply chain and is based on the applicable legal requirements and substance restrictions in effect at the date of issue.

The M-DoC is reviewed regularly and updated as necessary — particularly in the event of:

- relevant changes in applicable regulations,
- additions to the candidate lists (e.g., SVHC),
- or new declarations from suppliers.

This M-DoC remains valid until a revised version is officially issued and published by PULS. It is not necessary to request updates proactively; the latest version is always made available via our official communication channels.