

Munich, 30.07.2025

## 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**
- PULS Statement regarding requirement "**Asbestos-Free**" devices
- PULS Statement regarding requirement "**Halogen-Free**" devices

PULS Sales-number / Model Designation
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<b>SP960.481-S</b>
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### 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 to 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 came 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:

<b>07a, 07c-I, 34</b>
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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/T11364-2014 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 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr (VI))	多溴联苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
Printed Circuit Boards Assemblies	X	O	O	O	O	O
Housing Body	O	O	O	O	O	O
Housing Cover	O	O	O	O	O	O
Terminals	O	O	O	O	O	O
Labels	O	O	O	O	O	O
DIN-Rail-Holder	O	O	O	O	O	O
DIN-Rail-Slider	O	O	O	O	O	O
O: 表示该有毒有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下 O: Indicates the toxic or hazardous substance contained in all of the homogeneous materials for this part is within the limit requirement in GB/T 26572.						
X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572规定的限量要求。 X: Indicates the toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is outside the limit requirement in GB/T 26572						
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 contains at least one dangerous substance, but can be used safely during the Environmental Protection Use Period (EPUP). Their duration is determined by the number of years shown in the EFUP symbol, after which the product should be properly disposed of or recycled.

## 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)	Lead / 231-100-4 / 7439-92-1
SCIP-ID	bc7a986d-bd90-40eb-8ee8-619c42962781

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

PULS is not a manufacturer of substances from the PFAS substances group. Our responsibility and option for action therefore lies in analyzing the supply chains of our supply materials regarding PFAS applications.

PULS hereby confirms that it will report the PFAS substances contained in this device as soon as we have information from our supply chain. Furthermore, we confirm that we will comply with the legal reporting obligations of **U.S. EPA TSCA Section 8(a)(7)** regarding the PFAS substances contained in this device in a timely manner.

As of now, we have the following information from our supply chain about PFAS substances for the device declared here:

Name PFAS Substance	CAS-No	Quantity (mg)	Intended use in the device	Status of PFAS alternatives
Polytetrafluoroethylene (PTFE)	9002-84-0	64	KR-Relays	currently not technically substitutable
Ethylen-Tetrafluorethylen (ETFE)	68258-85-5	6726	WHR-HF Litz Wires	currently not technically substitutable
Ethylen-Tetrafluorethylen (ETFE)	68258-85-5	1035	WIR-Insulated Wires	currently not technically substitutable

Note: The technical documentation as proof of compliance with the applicable TSCA Section 8(a) (7) (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)*.

## 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)
28063	414	39106

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).

Name and address of the  
responsible manufacturer

**PULS GmbH**  
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**81925 Munich**  
**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.