

Munich, 28.05.2025

## 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**
- "**PFAS-Free**" Products – U.S. EPA **TSCA** Section 8(a)(7)
- PULS Statement regarding requirement "**Asbestos-Free**" devices
- PULS Statement regarding requirement "**Halogen-Free**" devices
- Free of paint wetting impairment substances (**LABS**) in accordance to VDMA 24364
- European Directive 94/62/EC on **packaging and packaging waste** and Directive 97/129/EC on the **identification system for packaging materials**

PULS Sales-number / Model Designation
<b>YR20.242</b>

### 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:

<b>07a, 07c-I</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
Mechanic Component(s)	Lead / 231-100-4 / 7439-92-1
SCIP-ID	e57aa62a-83a9-4fd7-96b5-39df0ec17e6b

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)*.

## 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)*.

## European POP Regulation (EU) 2019/1021

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

For the declared device there is to-date no evidence within our supply chain that:

- our products contain articles with prohibited substances from Annex I of POP regulation.
- there is any use of exemption from control measures acc. Article 4 (see additionally Annex I) of POP regulation.

Note: The technical documentation as proof of compliance with the applicable POP Regulation (EU) 2019/1021 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)*.

## "PFAS-Free" Products – U.S. EPA TSCA Section 8(a)(7)

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:

**None** (no PFAS information from supply chain)

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 **less than 1500 ppm** in relation to the total weight of the device. The device will therefore be declared as - **halogen-free**.

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).

## Free of paint wetting impairment substances (LABS) in accordance to VDMA 24364

The declared device is free of paint wetting impairment substances (LABS).  
The investigation for substances that impair paint wetting was carried out in accordance with VDMA 24364: 2018-05. The results are shown in the table below:

Test Report	Test class	Lacquer type	Designation of the LABS conformity
LAB-21-963	C1	solvent + water based (L/W)	VDMA24364-C1-L/W

## European Directive 94/62/EC on packaging and packaging waste and Directive 97/129/EC on the identification system for packaging materials

This compliance declaration only includes the product-specific, original individual packaging materials. Other packaging materials that are used within the supply chain for outer packaging or repackaging purposes vary depending on the means of transport or are not always under our control and are therefore not included in the following compliance declaration.

Compliance with the Requirements of Directive 94/62/EC:

- The original single packaging of declared device meets the essential requirements concerning the composition and the reusable/recoverable nature of packaging.
- The concentration levels of heavy metals (lead, cadmium, mercury, and hexavalent chromium) in the packaging do not exceed the specified limits.
- Measures have been implemented to promote the reuse and recycling of packaging.

Compliance with the Requirements of Directive 97/129/EC:

- The original single packaging of declared device is marked in accordance with the requirements for the identification of packaging materials to facilitate recycling and reuse.
- The following table shows the packaging materials used for the original individual packaging.

Packaging part name	Material name	Packaging code	Weight (in mg)
Box inlay	PAP Corrugated fibreboard	20-PAP	33800
Installation manual	Paper	22-PAP	4100
Folding cardboard	PAP Corrugated fibreboard	20-PAP	54000

Name and address of the responsible manufacturer

**PULS GmbH**  
**Elektrastraße 6**

**81925 Munich  
Germany**

**Friedrich Haunschild\***

Expert Material Compliance

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

Attention: Notes on the validity of this M-DoC edition:

This issued M-DoC contains the latest information from our supply chain for material declaration in relation to the laws and regulations as listed here. The M-DoC is updated regularly, especially when new information on the material declaration from our supply chain is available or updated laws and regulations require a new edition. This M-DoC for PULS standard devices remains valid until a new one is issued and published on our website. It is therefore not necessary to ask whether a newer version is available.