

Munich, 01.06.2026

Material Declaration of Conformity (M-DoC)

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PULS Sales-number / Model Designation
UZB12.071

European Directive 2011/65/EU (RoHS II) - PULS Applicability Statement

As part of our commitment to complying with EU directives, we hereby declare that our **VRLA industrial embedded batteries do not fall under the scope of DIRECTIVE 2011/65/EU** OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

As stated in **Recital 14 of Directive 2011/65/EU**: “This Directive should be **without prejudice** to Union safety and health legislation and specific Union waste management legislation, **in particular Directive 2006/66/EC** of the European Parliament and of the Council of 6 September 2006 on batteries and accumulators and waste batteries and accumulators (3) and Regulation (EC) No 850/2004.”

While Directive 2011/65/EU regulates the use of hazardous substances in electrical and electronic equipment, all batteries – including our VRLA industrial embedded batteries – fall under the separate **Battery Regulation 2023/1542**, which lays down requirements on sustainability, safety, labelling, marking and information to allow the placing on the market or putting into service of batteries within the Union. It also lays down minimum requirements for extended producer responsibility, the collection and treatment of waste batteries and for reporting.

Chinese MIIT Order 32 (China-RoHS 2)

The declared **VRLA Industrial Built-in Batteries used in PULS DC-UPS or Battery Modules** meets the Measures for Restriction of the Measures for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products (MIIT Order No. 32) of the Chinese Ministry of Industry and Information Technology (MIIT).

The maximum concentration values of hazardous substances in all homogeneous materials are in compliance with: GB/T 26572-2019

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 Hexa-valent Chromium (Cr (VI))	多溴联苯 Poly-brominated biphenyls (PBB)	多溴二苯醚 Poly-brominated diphenyl ethers (PBDE)	邻苯二甲酸二 (2-乙基)己酯 Di(2-ethylhexyl) phthalate (DEHP)	邻苯二甲酸丁基 苯基酯 Butyl benzyl phthalate (BBP)	邻苯二甲酸二丁酯 Dibutyl phthalate (DBP)	邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)
Battery	X	O	O	O	O	O	O	O	O	O
<p>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.</p> <p>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.</p> <p>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.</p>										

The EFUP of the declared battery is at least 6 years.
The battery is marked with following EFUP symbol:



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 **VRLA Industrial Built-in Batteries used in PULS DC-UPS or Battery Modules** used in PULS DC-UPS or Battery Modules 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 **VRLA Industrial Built-in Batteries used in PULS DC-UPS or Battery Modules** contain 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
Battery	Lead (about between 60-70%) / 231-100-4 / 7439-92-1
SCIP-ID	1cbc9666-477c-4435-8fdf-3c49e014408c

MSDS (Material Safety Data Sheets) see the [Downloads area](#) on our website.

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 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 **VRLA Industrial Built-in Batteries used in PULS DC-UPS or Battery Modules** 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)*.

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 VRLA Industrial Built-in Batteries used in PULS DC-UPS or Battery Modules 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 VRLA Industrial Built-in Batteries used in PULS DC-UPS or Battery Modules 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 VRLA Industrial Built-in Batteries used in PULS DC-UPS or Battery Modules in a timely manner.

As of now, we have the following information from our supply chain about PFAS substances for the VRLA Industrial Built-in Batteries used in PULS DC-UPS or Battery Modules 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)*.
- For certain components, suppliers have confirmed the presence of PFAS substances but have not disclosed further substance-specific details. In such cases, data is reported based on available supplier information only.
- Any quantitative values provided represent typical values based on current knowledge and do not constitute exact material composition data.

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)*.

Demand for “Halogen-Free Products”

Concerning the requirement for halogen-free design of products, PULS GmbH aligns with the ZVEI Positioning Paper detailing the Demand for “Halogen-Free Products” in the Electrical and Electronics Industry (Edition: Oct. 2010).

Based on the above-mentioned paper, PULS issued the following “Halogen-free” affirmations regarding materials contained in the declared **VRLA Industrial Built-in Batteries used in PULS DC-UPS or Battery Modules**:

- Plastic or chemical materials (e.g. housing components, sliders, connectors, terminals, glue, heat conductive paste, etc.) do not contain halogens.
- All other material shall contain halogens according to IEC 61249-2-21, with max. 1500 ppm halogens in total (max. 900 ppm bromine; max. 900 ppm chlorine) as far as is possible within the state of the art and/or economic viability.

*ZVEI = German Electrical and Electronic Manufacturers' Association

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

The declared **VRLA Industrial Built-in Batteries used in PULS DC-UPS or Battery Modules** is free of paint wetting impairment substances (LABS). The investigation for substances that impair paint wetting was carried out in accordance with VDMA 24634: 2018-05. The results are shown in the table below:

Test Report	Test class	Lacquer type	Designation of the LABS conformity
LAB-20-839	C1	solvent + water based (L/W)	VDMA24364-C1-L/W

European PPWR REGULATION EU2025/40 on Packaging and Packaging Waste and DIRECTIVE 97/129/EC on the Identification System for Packaging Materials

This compliance declaration refers exclusively to the product-specific original individual packaging materials. Other packaging materials used within the supply chain for outer packaging or repackaging purposes may vary depending on the mode of transport or are not always under our control. They are therefore not included in the following compliance declaration.

Compliance with the Requirements of Regulation (EU) 2025/40:

- The original single packaging of the declared device complies with the essential requirements concerning composition, recyclability, reusability, and the minimization of environmental impact as defined in Regulation (EU) 2025/40.
- The concentration levels of heavy metals (lead, cadmium, mercury, and hexavalent chromium) in the packaging materials do not exceed the permitted threshold values specified in Article 5 of the Regulation.
- Measures have been implemented to support the reuse, recycling, and environmentally sound management of packaging waste in accordance with the obligations of the Regulation.

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

- The original single packaging of the declared device is marked in accordance with the identification system for packaging materials established by Directive 97/129/EC to facilitate sorting, reuse, and recycling.
- 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	80200
Installation manual	Paper	22-PAP	4100
Folding cardboard	PAP Corrugated fibreboard	20-PAP	115000

Name and address of the
responsible manufacturer

PULS GmbH
Elektrastraße 6
81925 Munich
Germany

Friedrich Haunschild*

Friedrich HaunschildExpert 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 VRLA Industrial Built-in Batteries 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.