

Munich, 21 October 2016

## Certificate of Conformity (CoC)

- **European Directive 2011/65/EU (RoHS II)**
- **European REACH Regulation (EC)1907/2006**
- **Chinese MIIT Order 32 (China-RoHS 2) incl. Hazardous Substance Control Table in compliance with Chinese SJ/T11364-2014**

<b>PULS Sales-number / Model Designation</b>
<b>QS10.481</b>
<b>QS10.481-D1</b>

Table 1

### European Directive 2011/65/EU (RoHS II)

PULS Standard Units listed in table 1 meet the restriction of the use of certain hazardous substances in electrical and electronic equipment of the Directive 2011/65/EU (RoHS II) of the European Parliament and of the Council of 8 June 2011.

The RoHS II conformity of these units is proved since June 2011 at the latest. For PULS Standard Units with launch after June 2011, the RoHS II compliance is already given from market launch.

PULS Standard Units listed in table 1 meet the restricted substances referred to Article 4 (1) and maximum concentration values by weight homogeneous materials according Annex II.

Annex II to Directive 2011/65/EU was amend by DIRECTIVE (EU) 2015/863 of 31 March 2015 of the European Parliament and of the Council. PULS confirms compliance with these additional substance restrictions under application of time limits.

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

07a, 07c-I, 07c-II
--------------------

## 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 only providing information on only 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 of the European REACH Regulation 1907/2006 (Registration, Evaluation, Authorisation and Restriction of Chemicals), 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 done by considering of the ECJ-Judgment (Case C-106/14) for calculating the SVHC content in articles.

Within our supply chain we got following REACH Article 33 information that PULS Standard Units (listed in table 1) contain (a) component(s) with following SVHC (Article 59) listed substances > 0.1 % by weight.

Description affected articles	SVHC listed substances > 0.1 % by weight	EC #	CAS #
SMD-DIODE SMD-Z-DIODE	Lead monoxide (lead oxide)	215-267-0	1317-36-8
Out of our supply chain we have currently no information that material safety data sheets must be made available for units listed in table 1.			

Table 2

PULS will replace SVHC listed substances respectively that article through an alternative solution as far it is technically and economically feasible.

## Chinese MIIT Order 32 (China-RoHS 2)

PULS Standard Units listed in table 1 meet the Measures for Restriction of the Use of Hazardous Substances in Electrical & Electronic Products No. Order 32 (China-RoHS II) of the Chinese Ministry of Industry and Information Technology (MIIT).

Below you find the Hazardous Substance Control Table in compliance with Chinese SJ/T11364-2014 for units as listed in table 1.

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	O	O	O	O	O	O
Terminals	O	O	O	O	O	O
Labels	O	O	O	O	O	O
T-Holder	O	O	O	O	O	O
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 that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below 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 that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above 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. Use Period is valid only when the product is operated under the conditions defined in the product manual.

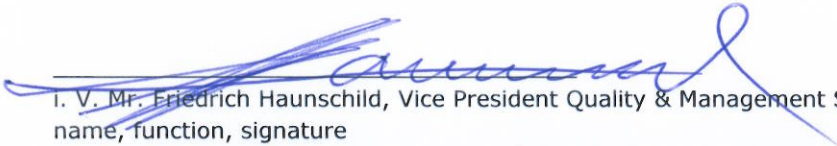
Table 3

The EFUP of the units listed in table 1 is 25 years.  
The units are marked with following EFUP symbol:



Name and address of the responsible manufacturer

**PULS GmbH**  
**Arabellastraße 15**  
**81925 Munich**  
**Germany**

  
I. V. Mr. Friedrich Haunschild, Vice President Quality & Management Systems  
name, function, signature