

PULS GmbH Elektrastraße 6 81925 München

+49 89 9278 0 info@pulspower.com www.pulspower.com

Munich, 13 June 2018

Material Certificate of Conformity (M-CoC)

- European Directive 2006/66/EC (Batteries)
- European DIRECTIVE 2011/65/EU (RoHS II), amended by Directive (EU)2015/863
- European REACH REGULATION (EC)1907/2006
- PULS Position on the Demand for "Halogen-Free Products"

The M-CoC for combined Battery module with assembled battery consists of:

- M-CoC for Battery module without assembled battery
- M-CoC for Battery

see assignment Table 1.

PULS Sales Number / Model Designation	Consists of:	
Battery module with assembled battery	Battery module without assembled battery	Battery
UZK12.071	UZO12.07	UZB12.071
UZK12.072	UZO12.072	UZB12.071
UZK12.261	UZO12.26	UZB12.261
UZK24.071	UZO24.071	UZB12.071
UZK24.121	UZO24.121	UZB12.121

Example











Table 1

Geschäftsführer: Bernhard Erdl Registergericht München, HRB 64 293 USt-ID: DE129702224 HypoVereinsbank München
IBAN: DE04 7002 0270 0002 4014 01
BIC: HYVEDEMM

DZ-Bank München

IBAN: DE89 7016 0000 0000 0922 16

BIC: GENODEFF701



PULS GmbH Flektrastraße 6 81925 München

+49 89 9278 0 info@pulspower.com www.pulspower.com

Munich, 13 June 2018

Material Certificate of Conformity (M-CoC)

- European DIRECTIVE 2011/65/EU (RoHS II), amended by Directive (EU)2015/863
- European REACH REGULATION (EC)1907/2006
- PULS Position on the Demand for "Halogen-Free Products"

PULS Sal	es-number	/ Model Des	ignation
UZO24	.071		

Table 1

European DIRECTIVE 2011/65/EU (RoHS II)

PULS Standard Units listed in table 1 meet regulations regarding the restriction in the use of certain hazardous substances in electrical and electronic equipment within 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 valid since before June 2011. For PULS Standard Units launched after June 2011, full compliance is already in place from the market launch date.

PULS Standard Units listed in table 1 meet 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 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:

nana	
Hone	

Geschäftsführer: Bernhard Erdl Registergericht München, HRB 64 293 USt-ID: DE129702224

HypoVereinsbank München IBAN: DE04 7002 0270 0002 4014 01 BIC: HYVEDEMM

DZ-Bank München

IBAN: DE89 7016 0000 0000 0922 16

BIC: GENODEFF701



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.

For PULS Standard Units listed in table 1 there is to-date no evidence within our supply chain that any of our products contain articles with a substance which is listed in the ECHA "candidate list" SVHC (Article 59) with a weight of >0.1%.



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 PULS Standard Units listed in table 1:

- 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

Change History

Revision Date	Change Description	
04.04.2017	New edition.	1)
13.06.2018	Chapter Halogen-Free Products" added.	

Name and address of the responsible manufacturer

PULS GmbH Elektrastraße 6 81925 Munich Germany

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



PULS GmbH Elektrastraße 6 81925 München

+49 89 9278 0 info@pulspower.com www.pulspower.com

Munich, 13 June 2018

Material Certificate of Conformity (M-CoC)

- European Directive 2006/66/EC (Batteries)
- European Directive 2011/65/EU (RoHS II), amended by DIRECTIVE (EU)2015/863
- European REACH Regulation (EC)1907/2006
- PULS Position on the Demand for "Halogen-Free Products"

PULS Sales-number / Model Designation	
UZB12.051	
UZB12.071	
UZB12.121	
UZB12.261	

Table 1

European Directive 2006/66/EC (Batteries)

PULS **VRLA Industrial Batteries** listed in *table 1* come under the requirements of 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.

It is a requirement of the Batteries Directive that all batteries, including VRLA Industrial Batteries, must be collected and sent for recycling at the end-of-life.

PULS offers its customers the service of a free take-back of all waste batteries at all PULS sales offices and also at the following address:

PULS GmbH Return Centre c/o Kühne & Nagel (AG & Co.) KG Bornaer Str. 205 09114 Chemnitz Germany

Geschäftsführer: Bernhard Erdl Registergericht München, HRB 64 293 USt-ID: DE129702224 HypoVereinsbank München
IBAN: DE04 7002 0270 0002 4014 01
BIC: HYVEDEMM

DZ-Bank München

IBAN: DE89 7016 0000 0000 0922 16

BIC: GENODEFF701



European Directive 2011/65/EU (RoHS II)

PULS VRLA Industrial Batteries listed in *table 1* do not fall under the scope of DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS 2 Directive).

Paragraph (Recital) 14 of the above Directive states:

"This Directive should apply without prejudice to Union legislation on safety and health requirements and specific 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 and Regulation (EC) No. 850/2004.

Paragraph (Recital) 29 of 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 states:

"Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment does not apply to batteries and accumulators used in electrical and electronic equipment."

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 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.

For PULS VRLA Industrial Batteries listed in table 1 there is to-date no evidence within our supply chain that any of our products contain articles with a substance which is listed in the ECHA "candidate list" SVHC (Article 59) with a weight of >0.1%.



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 PULS Standard Units listed in table 1:

- 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.

Change History

Revision Date	Change Description
04.04.2017	New edition.
13.06.2018	Chapter "Halogen-Free Products" added.

Name and address of the responsible manufacturer

PULS GmbH Elektrastraße 6 81925 Munich Germany

i. V. Mr. Friedrich Haunschild, Vice President Quality & Management Systems

name, function, signature

^{*}ZVEI = German Electrical and Electronic Manufacturers' Association