

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx SIR 11.0157U	issue No.:3	Certificate history: Issue No. 3 (2015-10-			
Status:	Current		30) Issue No. 2 (2015-2-4)			
Date of Issue:	2015-10-30	Page 1 of 5	Page 1 of 5 Issue No. 1 (2013-10- 17) Issue No. 0 (2012-1-27)			
Applicant:	TAB d.d., Tovarna Polena 6 2390 Slovenia	akumulatorskih baterij				
Electrical Apparatus: Optional accessory:	EPzS, EPzV, PzB an	d PzVB Traction Batteries				
Type of Protection:	Increased Safety and	d Dust Protection				
Marking:	Ex eb I Mb Ex eb IIC Gb Ex tb IIIC Db IP 64					
Approved for issue on be Certification Body:	shalf of the IECEx	C Ellaby				
Position:		Deputy Certification Manager				
Signature: (for printed version)		C. Elá	<u>X</u>			
Date:		2015-10-3	9			
 This certificate and schedule may only be reproduced in full. This certificate is not transferable and remains the property of the issuing body. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website. 						
Certificate issued by: SIRA C Unit 6, Hav	ertification Service CSA Group varden Industrial Park Hawarden	sir	CSA			
Un	Deeside CH5 3US ited Kingdom	CERTIFICAT				

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Manufacturer:	TAB d.d., Tovarna akumulato Polena 6 2390 Slovenia	rskih baterij		
Additional Manufacturing I (s):	location			
This certificate is issued a found to comply with the li covered by this certificate, certificate is granted subje as amended.	s verification that a sample(s), representative EC Standard list below and that the manufac , was assessed and found to comply with the ect to the conditions as set out in IECEx Sche	e of production, was assessed and tested and turer's quality system, relating to the Ex products IECEx Quality system requirements. This eme Rules, IECEx 02 and Operational Documents		
STANDARDS: The electrical apparatus a documents, was found to	and any acceptable variations to it specified in comply with the following standards:	n the schedule of this certificate and the identified		
IEC 60079-0 : 2011	079-0 : 2011 Explosive atmospheres - Part 0: General requirements			
IEC 60079-31 : 2013	Explosive atmospheres - Part 31: Equipr	nent dust ignition protection by enclosure "t"		
Edition: 2 IEC 60079-7 : 2015 Edition: 5.0	Explosive atmospheres – Part 7: Equipn	nent protection by increased safety "e"		
This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.				
TEST & ASSESSMENT F A sample(s) of the equipn	REPORTS: nent listed has successfully met the examina	tion and test requirements as recorded in		
Test Report: GB/SIR/ExTR12.0016/00	GB/SIR/ExTR14.0138/00	GB/SIR/ExTR15.0279/00		
Quality Assessment Repo	ort:			
SI/SIQ/QAR11.0004/00	SI/SIQ/QAR11.0004/01			
	2			
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Schedule

EQUIPMENT: Equipment and systems covered by this certificate are as follows:

The EPzS, EPz	V, PzB and PzBV are types of lead acid traction cells. The cells have	ve the following ratings:
Drawing	Cell Reference	Ah rating
B 315 1000	2 PzB, 3 PzB, 4 PzB, 5 PzB, 6 PzB, 7 PzB, 8 PzB	46-864 Ah, 2 V max
B 315 1005	9 PzB, 10 PzB, 11 PzB	207-1188 Ah, 2 V max
B 315 1010	2 EPzS, 3 EPzS, 4 EPzS, 5 EPzS, 6 EPzS, 7 EPzS, 8 EPzS,	100-1550 Ah, 2 V max
	9 EPzS, 10 EPzS	
B 315 1020	2 PzVB, 3 PzVB, 4 PzVB	122-340 Ah, 2 V max
B 315 1030	2 EPzV, 3 EPzV, 4 EPzV, 5 EPzV, 6 EPzV, 7 EPzV	110-720 Ah, 2 V max
B 315 1040	6 EPzS , 7 EPzS , 8 EPzS , 9 EPzS, 10 EPzS, 12 EPzS	300-1860 Ah, 2 V max
B 315 1050	2 EPzS, 3 EPzS, 4 EPzS, 5 EPzS, 6 EPzS, 7 EPzS, 8 EPzS,	100-1550 Ah, 2 V max
	9 EPzS, 10 EPzS	
B 315 1060	6 EPzS, 7 EPzS, 8 EPzS, 9 EPzS, 10 EPzS, 12 EPzS	300-1860 Ah, 2 V max
B 315 1070	2 PzB, 3 PzB, 4 PzB, 5 PzB, 6 PzB, 7 PzB, 8 PzB	46-864 Ah, 2 V max
B 315 1075	9 PzB, 10 PzB, 11 PzB	207-1188 Ah, 2 V max

CONDITIONS OF CERTIFICATION: NO



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EQUIPMENT(continued):

The EPzS and EPzV cells are between 196 mm and 198 mm wide and have 2 to 10 positive plates terminated on 2 or 4 terminal posts. The PzB and PzVB cells are 157.5 mm wide and have 2 to 8 positive plates terminated on 2 terminal posts. Connection to the cells is via female threaded inserts secured with metallic bolts with insulated covers, which maintain the minimum ingress protection level of IP 64.

All the cells are of similar design and construction, the variation in capacities being achieved by permutations of cell height, cell length and plate number, although the EPzS and PzB are flooded type that require electrolyte being topped up via vent plugs fitted to the top of the cell casing and the EPzV and PzVB are gel type, hence maintenance free. The EPzS and PzB cells are only to be topped up in a non-hazardous area.

All cells shall be used in an appropriate ventilated battery container.

Schedule of limitations

The user/installer shall comply with the following:

- 1. These cells shall be installed in a ventilated battery container that is suitable for the application and has been appropriately certified by a notified body; in addition, the container used to house the EPzS and PzB cells shall also have an IP 64 ingress protection rating or have facilities that maintain the IP64 ingress protection rating of the vent plug.
- 2. The cells are intended for use in a maximum service temperature range of -20°C to +95°C.
- 3. The EPzS and PzB cells shall only be topped up in a non-hazardous area.
- 4. The Cells have the following maximum rated discharge current which shall not to be exceeded:
 - * PzVB (2 terminals): 244 A
 - * EPzV (2 terminals): 475 A
 - * PzB (2 terminals): 500 A
 - * EPzS (2 terminals): 500 A
 - * EPzS (4 terminals): 500 A

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DETAILS OF CERTIFICA	TE CHANGES (for issues 1 and abo	ve):	
Issue 1 – this Issue int 1. QAR SI/SIC SI/SIQ/QAF and, becaus Issue 2 – this Issue int 1. The produc introduce m Issue 3 – this Issue int 1. Following a knowledge, were replace 2.0, the mar 2. The Schedu	roduced the following change: //QAR10.0001/01 was removed and {11.0004/01. Note: this is a retrosp se it is of an administrative nature, i roduced the following change: t description was updated to add cla ew cells to the range. roduced the following change: ppropriate assessment to demonstr IEC 60079-0:2007 Ed 5; IEC 6007 d by IEC 60079-0:2011-06 Ed 6.0, IEC kings were updated to reflect the ne ule of Limitations was reviewed and	d replaced with SI/SIQ/QAR11.0004/00 and ective change to correct a typographical error t is not associated with an ExTR. arity to the cell references covered and to rate compliance with the latest technical 9-7:2006 Ed 4 and IEC 60079-31:2008 Ed 1, C 60079-7:2015 Ed 5 and IEC 60079-31:2013-11 Ed aw standards. revised.	