



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 MSC 14.0010X

Issue No: 1

Certificate history:

Status: **Current**

Issue No. 1 (2017-12-05)

Issue No. 0 (2014-06-11)

Date of Issue: **2017-12-05**

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Applicant: **Austdac Pty Ltd**
Unit 1/ 42 Carrington Road,
Castle Hill NSW 2154
Australia

Equipment: **Memory Backup Battery Types 3/Li-C/125 and 3/Li-B/125**

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking:
Ex ia I/IIC Ma Ga T4

-20 °C ≤ Ta ≤ 80 °C for 3/Li-B/125 and -20 °C ≤ Ta ≤ 50 °C for 3/Li-C/125

Approved for issue on behalf of the IECEx
Certification Body:


Geoff Slater

Position:

Manager

Signature:
(for printed version)

Date:


4/12/2017

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

MSTC Mine Safety Technology Centre
8 Hartley Drive
Thomton NSW 2322
PO Box 343
Australia



**Planning &
Environment**
Resources Regulator



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Manufacturer: **Austdac Pty Ltd**
Unit 1/ 42 Carrington Road,
Castle Hill NSW 2154
Australia

Additional Manufacturing location(s):
Dongguan Hubbell Electrical Products Company Limited (DGHAL)
Xincheng Industrial Zone
Hengli Town, Dongguan City
523460, Guangdong
China

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IFCFx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[AU/MS/ExTR14.0003/00](#)

Quality Assessment Report:

[AU/ITA/QAR06.0001/08](#)

[AU/ITA/QAR06.0001/09](#)

[AU/ITA/QAR15.0002/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Memory Backup Battery Types 3/Li-C/125 and 3/Li-B/125 each consists of a lithium battery CR1632 or BR1632 respectively, three series Schottky diodes and a current limiting resistor fully encapsulated inside a plastic enclosure. Four header pins are soldered onto the printed circuit board two for each polarity and protrude out of encapsulation to allow connection to unspecified circuits.

SPECIFIC CONDITIONS OF USE: YES as shown below:

It is a condition of safe use that the following parameters are taken into account during any installation:

Group I

Parameter	Value
Maximum Input Voltage U_i	20 V
Maximum Internal Capacitance C_i	Negligible
Maximum Internal Inductance L_i	Negligible
Maximum Output Voltage U_o	3.7 V
Maximum Output Current I_o	3.74 mA
Maximum Output Capacitance C_o	2000 μ F
Maximum Output Inductance L_o	5 mH
Maximum Output Inductance to Resistance ratio L_o / R_o	60 μ H/ Ω



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Group IIC

Parameter	Value
Maximum Input Voltage U_i	20 V
Maximum Internal Capacitance C_i	Negligible
Maximum Internal Inductance L_i	Negligible
Maximum Output Voltage U_o	3.7 V
Maximum Output Current I_o	3.74 mA
Maximum Output Capacitance C_o	200 μ F
Maximum Output Inductance L_o	1 mH
Maximum Output Inductance to Resistance ratio L_o/R_o	60 μ H/ Ω



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Change to the applicant and manufacturer address and addition of an additional manufacturing location.



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Additional information:

Drawing list pertaining to this Certificate:

Manufacturer's Documents				
Drawing/Document Number:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
61-292-03	1	RTC BACKUP BATTERY TYPE 3/Li-C/125 AND 3/Li-B/125 PCB0335A VER2 SCHEMATIC DIAGRAM	03	2014-06-02
61-293-21	3	RTC BACKUP BATTERY TYPE 3/Li-x/125 PCB0335A VER2 ARTWORK DETAILS	02	2014-02-06
61-294-14	2	RTC BACKUP BATTERY TYPE 3/Li-x/125 BILL OF MATERIALS	02	2014-02-07
61-295-04	1	RTC BACKUP BATTERY TYPE 3/Li-x/125 PCB0335A VER2 ASSEMBLY DETAILS	02	2014-06-02
61-296-13	1	RTC BACKUP BATTERY TYPE 3/Li-x/125 LABEL DETAILS	02	2014-05-23
61-297-04	1	RTC BACKUP BATTERY TYPE 3/Li-x/125 HEADER CUTTING DETAILS ASSEMBLY DETAILS	1	2013-07-15
61-299-07	1	RTC BACKUP BATTERY TYPE 3/Li-x/125 PCB0335A VER2 COMPONENT LOADING DIAGRAM	2	2014-02-07