



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 ITA 13.0027X Issue No: 0 Certificate history:
Issue No. 0 (2014-11-24)

Status: **Current** Page 1 of 3

Date of Issue: **2014-11-24**

Applicant: **Austdac Pty Ltd**
Unit 1,4 Packard Ave
Castle Hill
NSW 2154
Australia

Electrical Apparatus: **AC4W Power Supply**
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: [Ex ia] Ma I

Approved for issue on behalf of the IECEx
Certification Body:

James Birch

Position:

Certification Authority

Signature:
(for printed version)

Date:

2014-11-24

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:

TUV Rheinland Australia Pty. Ltd
1/30 Kennington Drive
Tomago NSW 2322
Australia





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Manufacturer: **Austdac Pty Ltd**
Unit 1,4 Packard Ave
Castle Hill
NSW 2154
Australia

Additional Manufacturing
location(s):

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, IECEx 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/ITA/ExTR13.0032/00](#)

Quality Assessment Report:

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



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The power supply type AC4W is a small 12V 200mA intrinsically safe power supply for use in powering low power SILBUS modules and other general small loads. The AC4W is din rail mounted and is to be installed in a IP54 enclosure.

Refer to annexe for additional information, including Input and Output Parameters and Conditions.

CONDITIONS OF CERTIFICATION: YES as shown below:

Refer to annexe for additional information, including Input and Output Parameters and Conditions.

Annex:

[IECEx 13.0027X Certificate Annex.pdf](#)

IECEX Certificate of Conformity



Annexe



Annexe for Certificate No.:	IECEX ITA 13.0027X	Issue No.:	0
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Description:

The power supply type AC4W is a small 12V 200mA intrinsically safe power supply for use in powering low power SILBUS modules and other general small loads. It is installed in a safe area with a minimum rating of IP20.

The unit comprises of a printed circuit boards upon which are mounted electronic components which provide voltage and current limitation via a triplicated arrangement of shunt voltage limiter circuits, series current limiter and series current limiting resistor respectively. Electrical connections are made via screw terminal blocks that form part of the enclosure.

The apparatus is powered from AC mains and may be powered by a nominal 110VAC or 240VAC.

Conditions of Certification pertaining to Issue 0 of this Certificate:

1. The AC4W Power Supply is to be installed in a non-hazardous (safe) area. The ambient temperature range is -20°C to +50°C.
2. The AC4W Power Supply is to be housed in a suitable enclosure that provides a degree of protection of not less than IP54.
3. The earth terminals of the AC4W Power Supply must be connected to a mains earth system via two (2) 2.5mm² earth conductors. These provide ongoing electrical safety and maintain the intrinsic safety and certification.
4. The electrical parameters in the below table shall be taken into account during installation.

Function	Terminals	Um	Uo	Io	Co	Lo	Lo/Ro
240V Incoming Power	X16 WRT X21. (X18 & X19 are Connected)	250V					
120V Incoming Power	X16 WRT X21. (X17 connected to X19, X18 connected to X20.)	250V					
Output	X12,X13 WRT X14,X15		12.6V	1.33A (Nominal 200mA)	14uF	50uH	60uH/Ω

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Annexe



Annexe for Certificate No.:	IECEx ITA 13.0027X	Issue No.:	0
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Drawing list pertaining to Issue 0 of this Certificate:

Manufacturer's Controlled Documents				
Title:	Drawing No.:	Rev. Level:	Number of sheets:	Date:
POWER SUPPLY TYPE AC4W DOCUMENT LIST	66-150-37	03	2	2014-11-13
POWER SUPPLY 12V 0.2A TYPE AC4W PCB0267A SCHEMATIC DIAGRAM	66-151-03	03	1	2014-09-01
POWER SUPPLY 12V 0.2A TYPE AC4W PCB0268A SCHEMATIC DIAGRAM	66-152-03	05	1	2014-09-01
POWER SUPPLY 12V 0.2A TYPE AC4W PCB0267A VER 4 ARTWORK DETAILS	66-153-21	03	4	2011-01-21
POWER SUPPLY 12V 0.2A TYPE AC4W PCB0268A VER 5 ARTWORK DETAILS	66-154-21	03	4	2014-01-30
POWER SUPPLY TYPE AC4W PCB0267A COMPONENT LOADING DIAGRAM	66-155-07	02	2	2014-09-01
POWER SUPPLY TYPE AC4W PCB0268A COMPONENT LOADING DIAGRAM	66-156-07	03	1	2014-10-14
POWER SUPPLY 12V 0.2A TYPE AC4W PCB0267A (MAINS) BILL OF MATERIALS	66-157-14	02	2	2014-10-14
POWER SUPPLY 12V 0.2A TYPE AC4W PCB0268A (OUTPUT) BILL OF MATERIALS	66-158-14	03	2	2014-09-01
POWER SUPPLY TYPE AC4W BILL OF MATERIALS	66-159-14	01	2	2013-11-06
POWER SUPPLY 12V 0.2A TYPE AC4W INTER-BOARD INSULATOR SHEET MECHANICAL DETAILS	66-161-06	01	1	2014-10-14
POWER SUPPLY 12V 0.2A TYPE AC4W CERTIFICATION LABEL LABEL DETAILS	66-166-13	05	1	2014-11-12
POWER SUPPLY 12V 0.2A TYPE AC4W CONNECTION LABEL LABEL DETAILS	66-167-13	01	1	2013-12-20
DUPLINE 128 8081 BELT CONTROLLER MAINS TRANSFORMER ASSEMBLY DETAILS	76-226-04	04	2	2001-06-06