



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 TSA 12.0034X Issue No: 2 Certificate history:
Status: **Current** Issue No. 2 (2017-05-11)
Date of Issue: **2017-05-11** Page 1 of 5 Issue No. 1 (2014-06-18)
Applicant: **Austdac Pty Ltd** Issue No. 0 (2013-02-01)
Unit 1, 42 Carrington Road
Castle Hill NSW 2154
Australia
Equipment: **Austdac LED Lighting System Type LLS1**
Optional accessory:
Type of Protection: **Intrinsic safety**
Marking:
Austdac Pty Ltd
Austdac LED Lighting System LLS1
Ex ia I Ma or Ex ib I Mb
IECEX TSA 12.0034X
S/N _____

Approved for issue on behalf of the IECEX
Certification Body:

Debbie Wouters

Position:

Acting Quality & Certification Manager

Signature:
(for printed version)

Date:

11 MAY 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.

Certificate issued by:

TestSafe Australia
919 Londonderry Road
Londonderry NSW 2753
Australia





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Manufacturer: **Austdac Pty Ltd**
Unit 1, 42 Carrington Road
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/TSA/ExTR12.0060/00

AU/TSA/ExTR12.0060/01

Quality Assessment Report:

AU/ITA/QAR06.0001/11



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Austdac LED Lighting System 1 (Type LLS1) is used to provide intrinsically safe area lighting for use in hazardous areas.

The Austdac LED Lighting System consists of a Lighting Junction Box (Type LJB1 or Type LJB2), up to four LED Lighting Heads (Type SS11-6L), interconnecting cables and a separately certified power supply.

The Power Supply can be any separately certified Power Supply meeting the parameters as listed in Austdac Drawing 40-320-19.

The Lighting Junction Boxes have been evaluated in test report AU/TSA/ExTR12.0059/00 and AU/TSA/ExTR14.0022/00.

The LED Lighting Head has been evaluated in test report AU/TSA/ExTR12.0055/00

The Power Supply converts AC power to DC power and supplies the DC power to the Lighting Junction Box which limits the power and distributes the power to up to 4 LED Lighting Heads.

The Power Supply and the Lighting Junction Box are fitted into enclosures which are rated to IP54 or better. The Power Supply and Lighting Junction Box may be fitted in the same enclosure provided that the wiring meets the creepage and clearances as defined in IEC 60079.11 Table 5.

The LED Lighting Head is connected to the Lighting Junction Box via a cable terminated with a connector rated to IP54 or better and meeting creepage and clearances as defined in IEC 60079.11 Table 5.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Please refer to Annexe of the certificate.



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

Issue 2:

Change of both Applicant address and Manufacturer address from
"1 / 4 Packard Avenue, Castle Hill, NSW 2154, Australia"

To

"Unit 1, 42 Carrington Road, Castle Hill, NSW 2154, Australia"



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Additional information:

None

Annex:

Annexe_IECEX TSA 12 0034X-2.pdf



IECEX Certificate of Conformity Annexe

Annexe for Certificate No.:	IECEX TSA 12.0034X	Issue No.:	2
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Drawing list pertaining to Issue 0 of this Certificate:

Drawing/Document Number:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
40-320-19	1	LED Lighting System 1 Type LLS1 Certification Diagram	06	2013-02-01
40-319-13	1	LED Lighting System 1 Type LLS1 Label Details	02	2013-02-01

Conditions of Certification pertaining to Issue 0 of this Certificate:

The following parameters should be taken into account during connection of the power supply to the mains:

Input power terminal of Power Supply	
Maximum Voltage U_m	250 V

The following parameters should be taken into account during the connection of the separately certified power supply to the LED Lighting System:

Lighting Junction Box type LJB1 input terminals	
Maximum Input Voltage U_i	12.6 V
Maximum Input Current I_i	3.3 A
Maximum Input Capacitance C_i	0 μ F
Maximum Input Inductance L_i	0 mH

Drawing list pertaining to Issue 1 of this Certificate:

Drawing/Document Number:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
40-320-19	2	LED Lighting System 1 Type LLS1 Certification Diagram	07	2014-02-04
40-319-13	2	LED Lighting System 1 Type LLS1 Label Details	03	2014-06-06

Conditions of Certification pertaining to Issue 1 of this Certificate:

The following parameters should be taken into account during connection of the power supply to the mains:

Input power terminal of Power Supply	
Maximum Voltage U_m	250 V

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IECEX Certificate of Conformity Annexe

Annexe for Certificate No.:	IECEX TSA 12.0034X	Issue No.:	2
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The following parameters should be taken into account during the connection of the separately certified power supply to the LED Lighting System:

Lighting Junction Box type LJB1 or LJB2 input terminals	
Maximum Input Voltage U_i	12.6 V
Maximum Input Current I_i	3.3 A
Maximum Input Capacitance C_i	0 μ F
Maximum Input Inductance L_i	0 mH

Variation permitted by Issue 2:

- Change of both Applicant address and Manufacturer address from
"1 / 4 Packard Avenue, Castle Hill, NSW 2154, Australia"
To
"Unit 1, 42 Carrington Road, Castle Hill, NSW 2154, Australia"

Conditions of Certification pertaining to Issue 2 of this Certificate:

No changes. The previous conditions still apply.

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