



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEx EXV 19.0063** Page 1 of 4 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2019-11-25

Applicant: **Newson Gale Limited**
Omega House
Private Road 8
Colwick
Nottingham NG4 2JX
United Kingdom

Equipment: **Earth-Rite Universal Power Supply (a.c.)**

Optional accessory:

Type of Protection: **Increased Safety , Intrinsically Safe, Dust Protection by enclosure**

Marking: Ex ec [ia] IIC T4 Gc (Ga)
Ex tb IIIC T70°C Db IP66
(Ta = -40°C to +55°C)

Approved for issue on behalf of the IECEx
Certification Body:

Sean Clarke CEng MSc FIET

Position:

Certification Manager

Signature:
(for printed version)

Date:

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 www.iecex.com or use of this QR Code.



Certificate issued by:

ExVeritas Limited
Units 16-18 Abenbury Way
Wrexham Ind. Est.
Wrexham LL 139UZ
United Kingdom





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Manufacturer: **Newson Gale Limited**
Omega House
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Additional
manufacturing
locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

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

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

This Certificate **does not** indicate compliance with 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:

[GB/EXV/ExTR19.0067/00](#)

Quality Assessment Report:

[GB/EXV/QAR19.0009/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Earth-Rite Universal Power Supply (a.c.) is intrinsically safe associated apparatus that provides an intrinsically safe output for connection to one or more earth monitoring devices in the hazardous area, typically Newson Gale Bond-Rite units. The equipment consists of a single printed circuit board, mounted inside a glass reinforced plastic enclosure, intended for installation in zones 2/22/21 or a non-hazardous (unclassified) location.

The maximum input voltage depends on the version:

$U_m = 125 \text{ Vac}$ or 250 Vac depending on the terminals used – refer to manual

The safety description at the intrinsically safe output is as follows:

$U_o = 8.61 \text{ V}$

$I_o = 0.152 \text{ A}$

$P_o = 0.715 \text{ W}$

$C_o = 5.9 \mu\text{F}$

$L_o = 1.5 \text{ mH}$

SPECIFIC CONDITIONS OF USE: NO



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Equipment (continued):

The Manufacturer shall comply with the following condition of manufacture:

1. The following test shall be performed on 100% of transformers fitted to the a.c. power supply. Each transformer shall be dielectric strength tested in accordance with IEC 60079-11:2011 clause 11.2 as follows: 1500 Vac shall be applied between the primary and secondary windings for a minimum of 60 s. The maximum current shall not exceed 5 mA and there shall be no evidence of insulation breakdown. Alternatively, the test may be performed at 1800 Vac for a minimum of 1 s.
2. The equipment incorporates a previously certified enclosure. It is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with this device, and the manufacturer shall inform the certification body of any modifications of the device that may impinge upon the explosion safety design of the product.

	Certificate number	Details
	IECEx PTB 08.0003U	ROSE Systemtechnik Type 26 enclosure

Annex:

[ERII PSU EXV19.0063 Annex 0.pdf](#)

Manufacturer's documents:			
Drawing No.:	Rev.	Title:	Date:
ERUPS 907 LAB	AH	Earth-Rite Universal Power Supply Certification Label	26/10/2019
ERUPS GA 001	3	Earth-Rite Universal Power Supply	09/04/2010
AA0190R3A-AC UPS-CERT	A	ER II AC UPS Board	25/03/2010
AA0190R3A-ER AC UPS-PLC	B	ER II AC UPS Certified Parts List	26/10/2019
AA0190R3ACB-CERT	A	ER II AC Supply PCB Layout	25/03/2010
AA0190R3ACT-CERT	A	ER II AC Supply PCB Layout	25/03/2010
AA0190R3ASS-CERT	A	ER II AC Supply PCB Layout	25/03/2010
BE008-0-01 R3	B	Transformer Details	08/04/2010