

1 **UNITED KINGDOM CONFORMITY ASSESSMENT**
2 **UK TYPE EXAMINATION CERTIFICATE**

3 **Product Intended for use in Potentially Explosive Atmospheres**
4 **UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1**

5 Type Examination Certificate Number: **ExVeritas 21UKEX0836** Issue: **1**

6 Product: Earth-Rite Universal Power Supply (a.c.)

7 Manufacturer: Newson Gale Limited

8 Address: Omega House, Private Road 8, Colwick, Nottingham, NG4 2JX, UK

9 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

10 ExVeritas Limited Approved Body number 2585, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

11 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with:


EN IEC 60079-0: 2018 EN 60079-7:2015+A1:2018 EN 60079-11: 2012
EN 60079-31:2014

Except in respect of those requirements listed at section 16 of the schedule to this certificate.

12 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

13 This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

14 The marking of the equipment shall include the following:

 II 3(1)G
II 2(1)D
Ex ec [ia Ga] IIC T4 Gc
Ex tb [ia Da] IIIC T70°C Db

Ta: -40 °C to +55 °C



No. 8613

On behalf of ExVeritas



S Clarke CEng MSc FIET
Managing Director

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The status of this certificate can be verified at www.exveritas.com

For help or assistance relating to this certificate, contact info@exveritas.com.

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Schedule

13 Description of Product

The Earth-Rite Universal Power Supply (a.c.) is intrinsically safe associated apparatus that provides an isolated 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.

Um = 125 Vac or 250 Vac depending on the terminals used.

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

Uo = 8.61 V
 Io = 0.152 A
 Po = 0.715 W
 Co = 5.9 µF
 Lo = 1.5 mH

14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R3140B/1	2022-04-29	0	Initial issue of the Prime Certificate
R3770/A/5	2022-12-05	1	1. To introduce substitution of some safety critical components. 2. The Ex marking code has been amended to reflect correctness to the latest applicable standards.

14.2 Compliance Drawings:

Issue 1

Drawing No.:	Title:	Rev. Level:	Date:
ERUPS GA 001	Earth-Rite Universal Power Supply	3	09/04/2010
AA0190R3A-AC UPS-CERT	ER II AC UPS Board	A	25/03/2010
AA0190R3C-ER AC UPS-PLC	*ER II AC UPS Certified Parts List	C	10/11/2021
AA0190R3ACB-CERT	ER II AC Supply PCB Layout	A	25/03/2010
AA0190R3ACT-CERT	ER II AC Supply PCB Layout	A	25/03/2010
AA0190R3ASS-CERT	ER II AC Supply PCB Layout	A	25/03/2010
BE008-0-01 R3	Transformer Details	B	08/04/2010
ER UPS LAB UKCA	*UKCA CERTIFICATION DETAIL EARTH-RITE UNIVERSAL POWER SUPPLY	AC	22/11/2022

*Note: An * is included before the title of documents that are new or revised.*

Schedule

15 Specific Conditions of Use

15.1 Special Conditions for Safe Use

None

15.2 Routine tests

1. The following test shall be performed on 100% of transformers. Each transformer shall be dielectric strength tested in accordance with EN 60079-11:2012 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

Certificate number

Details

IECEx PTB 08.0003U and PTB 01ATEX1061U ROSE Systemtechnik Type 26 enclosure

16 Essential Health and Safety Requirements (Regulations Schedule 1)

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform ExVeritas of any modifications to the design of the product described by this schedule.