

## 1 EU - Type Examination Certificate

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: ExVeritas 19ATEX0551 Issue: 2

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

5 Manufacturer: Newson Gale Limited

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

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 ExVeritas, Notified Body number 2804 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the Directive

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with the following Standards and section 16 of this certificate:

EN IEC 60079-0: 2018  
EN 60079-31:2014

EN 60079-7:2015+A1:2018

EN 60079-11: 2012

10 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.

11 This EU-Type Examination Certificate relates only to the design, construction, examination and tests of the specified equipment or protective system in accordance with the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 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

## Schedule

### 13 Description of Equipment or Protective System

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
R2249/A/6	2019-11-18	0	Initial issue of the Prime Certificate
EXV3140A	2021-01-12	1	Transfer of the certificate from ExVeritas UK, Notified Body number 2585 to ExVeritas Denmark, Notified Body number 2804.
R3770/A/5	2022-12-05	2	<ol style="list-style-type: none"> <li>To introduce substitution of some safety critical components.</li> <li>The Ex marking code has been amended to reflect correctness to the latest applicable standards.</li> </ol>

#### 14.2 Compliance Drawings:

Drawing No.:	Title:	Rev. Level:	Date:
ERUPS 907 LAB	*CERTIFICATION DETAIL EARTH-RITE UNIVERSAL POWER SUPPLY	AI	22/11/2022
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

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

Certificate: ExVeritas 19ATEX0551

Issue 2

This certificate may only be reproduced in its entirety and without any change, schedule included.

For help or assistance relating to this certificate, contact [info@exveritas.com](mailto:info@exveritas.com).

ExVeritas ApS, Severinsmindevej 6, 4420 Regstrup, Denmark.

ExVeritas® is a registered trademark, unauthorised use will lead to prosecution.



## Schedule

### 15 Conditions of Certification

#### 15.1 Special Conditions for Safe Use

None

#### 15.2 Conditions for Use (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

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 the Notified Body of any modifications to the design of the product described by this schedule.

Certificate: ExVeritas 19ATEX0551

Issue 2

This certificate may only be reproduced in its entirety and without any change, schedule included.

For help or assistance relating to this certificate, contact [info@exveritas.com](mailto:info@exveritas.com).

ExVeritas ApS, Severinsmindevej 6, 4420 Regstrup, Denmark.

ExVeritas® is a registered trademark, unauthorised use will lead to prosecution.