



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 CES 13.0006U Issue No.: 0 Certificate history:

Status: Current

Date of Issue: 2013-06-11 Page 1 of 4

Applicant: **CORTEM S.p.A.**
 Via Aquifela 10
 I - 34070 Villesse (GO)
 Italy

Electrical Apparatus: **Rechargeable Battery Group, type G-0309 and G-0309B**
 Optional accessory:

Type of Protection: **Increased safety 'e'**

Marking: **Ex e IIC Gb**

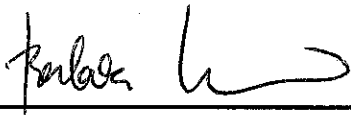
Approved for issue on behalf of the IECEx
 Certification Body:

Mirko Balaz

Position:

Head of IECEx CB

Signature:
 (for printed version)


 11-6-2013

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 the Official IECEx Website.

Certificate issued by:

CESI
 Centro Elettrotecnico
 Sperimentale Italiano S.p.A.
 Via Rubattino 54
 20134 Milano
 Italy

CESI
CESI S.p.A.
 Testing & Certification Division
 Business Area Certification
 Responsabile

 Fiorenzo Ercolani



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Manufacturer: **CORTEM S.p.A.**
Via Aquileia 10
I - 34070 Villesse (GO)
Italy

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 60079-7 : 2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

Edition: 4

*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:

IT/CES/ExTR13.0005/00

Quality Assessment Report:

IT/CES/QAR06.0002/07



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The battery pack type G-0309 or G-0309B consists of 5 elements Ni/Cd rechargeable, with 1.2 V each, connected in series and fixed together by a support of polyethylene. The battery pack utilize cells with capacity of 7 Ah, for G-0309 series and cell of 4 Ah, for G-0309B series.

All cells are suitable for a high operative temperature (up to + 70 °C).

The battery pack series G-0309 or G-0309B are used in emergency lighting. The group of battery is part of emergency lighting equipment and it is installed inside the lighting fixture enclosure in combination with an electronic inverter and a signaling led, object of separate IECEx certification.

Electrical characteristics

Battery pack G-0309: G-0309B):	5 rechargeable Ni/Cd cells
Rated voltage of each cell:	1.2 V
Rated voltage of battery pack:	6 V
Capacity	4 o 7 Ah
Operating temperature	from - 20°C to + 70°C

CONDITIONS OF CERTIFICATION: NO



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EQUIPMENT(continued):

Schedule of limitations for components:

- The condition of the installation of battery group are included within CORTEM safety instructions.
- Rechargeable battery group shall be installed into enclosures having minimum degree of protection IP-54..
- The operating temperature of the battery pack shall be in the range from -20°C to + 70°C.
- The battery pack shall be connected, both for charging and discharging, to an inverter series EI-58 supplied by CORTEM.
- The operations of charging, discharging and storage of battery must follow thermal limits prescribed in data sheets of the single cells.