[1] # EC-TYPE EXAMINATION CERTIFICATE

[2] **Component intended for use on/in equipment or protective system intended for use in potentially explosive atmospheres Directive 94/9/EC**

[3] EC-Type Examination Certificate number:

CESI 00 ATEX 032 U

[4] Component: Batteries series G-0309 for emergency group series GE...

[5] Manufacturer: **COR.TEM S.p.A.**

[6] Address: Via Aquileia 6, 34070 Villesse (Gorizia - Italy)

[7] This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] CESI, notified body n° 0722 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report n° EX-A0/020739.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014: 1997 + A1..A2 **EN 50019: 1994 + prAA:May 1999**

[10] The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

[11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

[12] The marking of the component shall include the following:

II 2 G EEx e II

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

date July 7th, 2000 - translation issued on July 8th, 2000

prepared CERT - P. Ostano

verified CERT - M. Balaz

approvved CERT - U. Colombo

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[13] # Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE N° CESI 00 ATEX 032 U**

[15] Description of component

Rechargeable battery series G-0309 for emergency group series GE...
The battery is composed of 5 NiCd elements, 1.2 V each, manufacturer VARTA, type RST (high temperature).
The battery elements are connected in series and enclosed in an external body made by polyethylene.
The battery is connected to an electronic inverter of the firm TELECTRONICS series TEMA Mod. 850C, installed inside the luminaire and subject of separate certification.

Electrical characteristics

Rated voltage	6 V
Rated capacity	4 or 7 Ah

[16] Report N° EX-A0/020739

Descriptive documents (prot. EX-A0/020737)

- Technical note A4-4061 rev. 1 (2 pages)	dated 21.06.2000
- Drawing n° A3-4058 Rev.1	dated 20.06.2000
- Drawing n° A3-4060 Rev.1	dated 20.06.2000
- Technical note TELECTRONICS (7 pages)	
- Technical note VARTA (24 pages)	dated 14.03.1997
- Safety instructions Rev. 0 (4 pages)	dated 21.06.2000
- Attestation of conformity for components	dated 21.06.2000

One copy of all documents is kept in CESI files.

[17] Schedule of limitations

- The battery shall be installed in an enclosure having a degree of protection at least IP 54.
- The temperature of the ambient in which the battery is installed shall not be higher than 70 °C.
- The battery shall be connected, both for charging and discharging, to an inverter conforming to the requirements of the document prAA EN 50019 (May 1999).

[18] Essential Health and Safety Requirements

The verifications on the battery series G-0309 have been made according to the document FINAL DRAFT EN 50019 prAA May 1999 - Annex G:"Cells and batteries up to 25 Ah"

EXTENSION n. 01/08

to EC-Type Examination Certificate CESI 00ATEX032U

Component: Batteries series G-0309 for emergency goup series GE...

Manufacturer: **COR.TEM S.p.A.**

Address: Via Aquileia 10, Villesse (Gorizia - Italy)

Admitted variation

- Update to EN 60079-0: 2006 and EN 60079-7 2006 standards
- Update of nameplate.
- New range of service temperature - 40 °C + 70 °C

Identification of component

The marking of the component shall include the following:

II 2GD Ex e II

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 00ATEX032U.

date 09.01.2008 - translation issued the 09.01.2008

prepared Pierluigi Molinari

verified Mirko Balaz

approved Fiorenzo Bregani

CESI S.p.A.
Divisione Energia
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EST-CE –COMP 01.-1

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EXTENSION n. 01/08

to EC-Type Examination Certificate CESI 00ATEX032U

Report n. EX-A8/000503

Electrical characteristics

Rated voltage	6V
Capacity	4 or 7 Ah

Descriptive documents (prot. EX-A8/000508)

- Technical note	Rev. 0	dated	11.10.2006
- Drawing n.A3-4058	Rev. 2	dated	11.10.2006
- Drawing n.A3-4060	Rev. 2	dated	11.10.2006
- Safety instructions F-251	Rev.1	dated	11.10.2006

- Attestation of conformity for components n. 0017 dated11.10.2006

One copy of all documents is kept in CESI files.

Schedule limitations

The battery shall be installed in an enclosure having a degree of protection at least IP 54.
The temperature of the ambient in wich the battery is installed shall not be higher than 70° C.
The battery shall be connected, both for changing and discharging, to the requirements of the EN 60079-7 Standard (paragraph 5.7)
The operations of charging, discharging and storage of battery must follow termical limits prescribed in data sheets of the single cells.

Essential Health and Safety Requirements

Compliance with the Health and Safety Requirements has been assured by compliance with the following standards:
EN 60079-0: 2006 - Electrical apparatus for explosive gas atmospheres. Part 0: General requirements
EN 60079-7: 2006 - Electrical apparatus for explosive gas atmospheres. Part 7: Increased safety "e"

EXTENSION n. 02/13

to EC-Type Examination Certificate CESI 00ATEX032U

Component: Battery packs series G-0309. for emergency group series GE...

Manufacturer: **CORTEM S.p.A.**

Address: Via Aquileia 10, Villesse (Gorizia - Italia)

Admitted variation

- New cells for high temperature type EXTRACELL
- Service temperature – 20°C ÷ +70°C
- Updating to the new edition of the harmonized European standards.

Identification of the components
The components named battery packs "G-0309 e G-0309B" used in emergency lighting groups series GE ... shall include the following marking:

II 2G Ex e IIC Gb

Constructive Characteristics
The battery pack G-0309 or G-0309B consists of 5 elements Ni/Cd rechargeable, with 1.2 V each, connected in series and fixed together by support of polyethylene.
The battery packs utilize cells with capacity of 7 Ah, for G-0309 series and cell of 4 Ah. for G-0309B series.
The battery pack series G-0309 or G-0309B are suitable for application at high temperature (up to + 70 °C) and are used in emergency lighting groups series GE. in combination with an electronic inverter CORTEM series EI-58 and a signaling led , object of separate ATEX certification.

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 00ATEX032U

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Date 11/06/2013 - Translation issued the 11/06/2013

Prepared	Verified	Approved
Sergio Mezzetti	Mirko Balaz	Fiorenzo Bregani

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EXTENSION n. 02/13

to EC-Type Examination Certificate CESI 00ATEX032U

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	- 20 ÷ + 70°C

Report n. EXB3013100

Descriptive documents (prot. EX-B3013136)

- Technical Note A4-5660 (3 pg.)	Rev. 1	dated	19/04/2013
- Drawing A3-4058	Rev. 3	dated	19/04/2013
- Drawing A3- 4060	Rev. 3	dated	19/04/2013
- Annex 1 to Technical Note	Rev .0	dated	19/04/2013
- Annex 2 to Technical Note (51 pg.)	Rev .1	dated	10/06/2013
- Fac-simile Attestation of component N° 0017		dated	19/04/2013
- Safety Instructions F-251 (4 pg)	Rev.2	dated	19/04/2013

One copy of all documents is kept in CESI files.

Schedule limitations

The CORTEM safety instruction shall be strictly respected.
The battery pack shall be installed in an enclosure having a degree of protection at least IP 54.
The service temperature of the battery pack shall be in the range from -20° to + 70° C.
The battery pack shall be connected, both for changing and discharging, to an inverter CORTEM series EI-58.
The operations of charging, discharging and storage of battery pack shall follow the thermal limits provided in the technical instructions of individual cells..

Essential Health and Safety Requirements

Covered by compliance to the following standards:

EN 60079-0 : 2012– Electrical apparatus for explosive gas atmospheres: General requirements
EN 60079-7: 2007 - Explosive atmospheres: increased safety "e"