



ISSEP
Institut scientifique
de service public

Métrologie environnementale
Recherche - Analyses
Essais - Expertises

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(1) **EC TYPE EXAMINATION CERTIFICATE**

(2) **Equipment or protective system intended for use
in potentially explosive atmospheres
Directive 94/9/EC**

(3) EC type examination certificate number: **ISSeP08ATEX052X**

(4) Equipment or protective system:
Solar Panel type SPA 130

(5) Applicant **JCE (Aberdeen) Ltd** Manufacturer
JCE Group

(6) Address: **Blackburn Business Park
Aberdeen AB21 OPS
U. K.**

(7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) ISSeP, notified body n° 492 in accordance with article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems 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° 08128.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN60079-0 : 2006 (IEC 60079-0 : 2004)
EN60079-18 : 2004 (IEC 60079-18 : 2004)
EN60079-7 : 2007 (IEC 60079-7 : 2006)

(10) If the symbol "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of this Directive may 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 or protective system shall include the following indications:

 II 2 G Ex mb e II T5

Colfontaine, the 17/11/2008

M. LAMBERT,
Manager.

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(13)

SCHEDULE

(14)

EC TYPE EXAMINATION CERTIFICATE N^R ISSeP08ATEX052X

(15) Description of the equipment or protective system:

Solar Panel type SPA130

Electrical parameters : U_{max} : 22 V
 I_{max} : 7,5 A

Routine tests :

- The manufacturer shall make the routine verifications and tests necessary to ensure that the electrical apparatus produced complies with the specification submitted to the testing station together with the prototype or sample (EN60079-0, clause 27).
- Each produced apparatus shall be submitted to the tests as indicated at clauses 9.1 and 9.2 of EN60079-18.
- Each junction box shall be submitted to a voltage test under 500 V during 1 min.

Eventual prescriptions : None.

(16) Report n° 08128 of 07/11/2008.

Composed in total of 25 pages, completed by the following descriptive documents :

The manuel : "SPA-130 Solar Panel Installation and Maintenance Information"

The drawings:

| Number | Rev. | Date | Description |
|---------|------|------------|------------------------------------|
| 130-001 | 2 | 21.10.2008 | Exmbe Solar Panel Assembly |
| 130-002 | 2 | 21.10.2008 | Exmbe Solar Panel Assembly Details |
| 130-003 | 2 | 21.10.2008 | Exmbe Solar Panel Assembly Details |
| 130-004 | 3 | 04.11.2008 | Exmbe Solar Panel Assembly Details |
| 130-005 | 2 | 21.10.2008 | Exmbe Solar Panel Assembly Details |
| 130-006 | 2 | 21.10.2008 | Exmbe Solar Panel Circuit diagram |
| 130-007 | 3 | 01.11.2008 | Exmbe Solar Panel Label Details |
| 130-008 | 2 | 21.10.2008 | Exmbe Solar Panel Label Details |

(17) Special conditions for safe use:

- The rear face shall be protected against all mechanical impact except if the protection back plate is installed.
- All metallic parts shall be earthed.
- The solar panel shall be completely covered by opaque material during the installation, the connection of the cable and before each connection box opening.

(18) Essential Health and Safety Requirements: covered by the Standards listed in (9).

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VARIATION

EC TYPE EXAMINATION CERTIFICATE N° ISSeP08ATEX052X/1

(14) Equipment or protective system :

Solar panel type SPA 130

(15) Subject of the variation :

Additional possible and admissible variation : SPA 130 A

Electrical parameters : - SPA 130 : $U_{max} = 22.0V$; $I_{max} = 7.5A$
 - SPA 130 A : $U_{max} = 22.5V$; $I_{max} = 8.5A$

Eventual Prescriptions : None.

(16) Report n° 09074 of 20.07.2009

Composed in total of 4 pages, completed with the following documents.

The drawings :

| Number | Rev. | Date | Description |
|---------|------|------------|------------------------------------|
| 130-001 | 3 | 02.07.2009 | Exmbe Solar Panel Assembly |
| 130-002 | 3 | 02.07.2009 | Exmbe Solar Panel Assembly Details |
| 130-003 | 3 | 02.07.2009 | Exmbe Solar Panel Assembly Details |
| 130-004 | 3 | 02.07.2009 | Exmbe Solar Panel Assembly Details |
| 130-005 | 3 | 02.07.2009 | Exmbe Solar Panel Assembly Details |
| 130-006 | 3 | 02.07.2009 | Exmbe Solar Panel Circuit diagram |
| 130-007 | 4 | 02.07.2009 | Exmbe Solar Panel Label Details |
| 130-008 | 3 | 02.07.2009 | Exmbe Solar Panel Label Details |

(17) Special conditions for safe use : Unchanged.

(18) Essential Health and Safety Requirements : None.

Colfontaine, 04.08.2009



M. LAMBERT,
 Manager.

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VARIATION

EC TYPE EXAMINATION CERTIFICATE N^R ISSeP08ATEX052X/2

- (14) Equipment or protective system:
 Solar Panels types SPA 130 and SPA 130 A
- (15) Object of the variation:
- The name of the applicant and manufacturer change to JCE GROUP (UK) Ltd
 - To permit the updating to the last version of the Standards
 - o EN 60079-0 : 2012 (IEC 60079-0 : 2011)
 - o EN 60079-7 : 2007 (IEC 60079-7 : 2006)
 - o EN 60079-18 : 2009 (IEC 60079-18 : 2009)

Electrical parameters: Unchanged

Eventual prescriptions: Unchanged

- (16) Report n^f 13002 of 18.02.2013
 Composed in total of 21 pages, completed with the following documents:

The manual : "SPA-130 Solar Panel Installation and Maintenance Information"

The drawings

| Number | Rev. | Date | Description |
|---------|------|------------|------------------------------------|
| 130-001 | 4 | 14.02.2013 | Exmbe Solar Panel Assembly |
| 130-002 | 4 | 14.02.2013 | Exmbe Solar Panel Assembly Details |
| 130-003 | 4 | 14.02.2013 | Exmbe Solar Panel Assembly Details |
| 130-004 | 4 | 14.02.2013 | Exmbe Solar Panel Assembly Details |
| 130-005 | 4 | 14.02.2013 | Exmbe Solar Panel Assembly Details |
| 130-006 | 4 | 14.02.2013 | Exmbe Solar Panel Circuit diagram |
| 130-007 | 5 | 14.02.2013 | Exmbe Solar Panel Label Details |
| 130-008 | 4 | 14.02.2013 | Exmbe Solar Panel Label Details |

- (17) Special conditions for safe use: Unchanged
- (18) Essential Health and Safety Requirements: Covered by the Standards listed in (9)

Colfontaine, 22.02.2013

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M. Lambert
 Directeur

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