Type Examination Certificate

1. **TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**

3. **Type Examination Certificate Number ITS18ATEX403028X Issue 0**

4. **Product:** **Solar Panel type SPA 2XX**

5. **Manufacturer:** **JCE Group (UK) Ltd.**

6. **Address:** **Blackburn Business Park,**
Aberdeen,
AB21 0PS, UK.

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

8. Intertek Testing and Certification Limited, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of the products intended for use in potentially explosive atmospheres given in Annex II to the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

   The examination and test results are recorded in confidential Intertek Report Ref 102668320LHD-001 Issue: 1 Dated: April 2018.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11:2013, EN 60079-7:2015 and EN 60079-18:2014 except in respect of those requirements referred to at item 16 of the Schedule.

10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Safe Use specified in the Schedule to this certificate.

11. This Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12. The marking of the product shall include the following:

   Ex II 3 G Ex ec mc IIC T4 Gc

   -20°C ≤ Ta ≤ 45°C

V K Varma
Certification Officer
26th April 2018

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SCHEDULE

TYPE EXAMINATION CERTIFICATE NUMBER ITS18ATEX403028X Issue 0

13. Description of Equipment or Protective System

The JCE SPA-2XX range of photovoltaic solar panels.

Fabricated with glass front, aluminium frame and Increased Safety terminal compartment, the solar panels are available in the following types / power ratings:

Model	Height (mm)	Width (mm)	Output Voltage (V)	Output Current (A)
SPA-230	1500	668	22.3	8.78
SPA-250	1338	990	29.5	8.58
SPA-255	1662	990	36.9	9.09
SPA-260	1500	990	33.2	8.78
SPA-280	1662	990	38.3	9.26
SPA-xx/xx	1662 max	990 max	38.3 max	9.26 max

Dimensions are nominal ±2.5mm.

Panels may be made in intermediate sizes (indicated by SPA-xx/xx in the table). These panels shall not exceed the dimensional limits or voltage and current ratings of the SPA-280 with minimum size 660 x 780mm. In these cases, “xx/xx” shall indicate the unique type of the panel.

The panels are provided with external earth connections.

14. Report Number

Intertek Report Ref 102668320LHD-001 Issue: 1 Dated: April 2018.

15. Special Conditions of Certification

(a). Specific Conditions of Safe Use

- The solar panel and any panels connected in series with it shall be covered in opaque material and the load disconnected prior to the terminal compartment being opened.
- The total system voltage shall not exceed 250V DC.

(b). Conditions of Manufacture - Routine Tests

- Each panel shall be subjected to a dielectric strength test at 1500V AC for 1 minute between the frame of the equipment and the solar panel output connections. The current flowing shall not exceed 5mA and no breakdown of insulation shall occur.
- Each encapsulated junction box shall be visually inspected.

16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report Ref 102668320LHD-001 Issue: 1 Dated: April 2018.

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SCHEDULE

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17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Ex ec mc SOLAR PANEL ASSEMBLY TYPE: SPA 200 CERTIFICATION DRAWING (9 Sheets)	280-201	2	07.03.18

18. Details of Certificate Changes

- April 2018: Issue 0
- Original Issue

This Certificate is the property of Intertek Testing and Certification Ltd and is subject to Intertek Testing and Certification's Conditions for Granting Certification

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.