

TYPE-EXAMINATION CERTIFICATE

1. Type-examination Certificate (Module A)
2. Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)



3. Type examination certificate Nr **ITS18ATEX403028X R.1**

4. **Product:** Solar Panel type SPA-2XX and SPA-365

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

Applicant: JCE Group (UK) Ltd.

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

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

8. INTERTEK ITALIA S.p.A., certifies that the 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 system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 102668320LHD-001 dated April 2018 and 105082822CHE-001 dated 26th September 2023.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN IEC 60079-7:2015+A1:2018 and EN 60079-18:2015+A1:2017 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 Special Conditions for 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:



II 3 G Ex ec mc IIC T4 Gc
-20°C ≤ Ta ≤ +45°C or -20°C ≤ Ta ≤ +50°C

Certificate issue date

4th October 2023

Mark Newman

Certification Officer
Intertek Italia S.p.A.



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.

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SCHEDULE

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13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The JCE SPA-2XX range of and SPA-365 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	9.6
SPA-xx/xx	1662 max	990 max	38.3 max	9.26 max
SPA-365	1984	1000	49.1	9.17

Dimensions are nominal ± 2.5 mm.

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. In these cases, "XX/XX" shall indicate the unique type of the panel.

The panels are provided with external earth connections.

Alternative manufacturing address: JCE (Europe) Ltd., East Way, Lee Mill Industrial Estate, Ivybridge, Devon, PL21 9LL.

14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
*Ex ec mc SOLAR PANEL ASSEMBLY TYPE: SPA 200 CERTIFICATION DRAWING (10 Sheets)	280-201	3	30.06.23
*JCE Group (UK) Ltd. SPA-2**/365 RANGE SOLAR PANEL Installation and Maintenance Information	SPA-280-IM	3	30/06/23

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

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.



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15. SPECIFIC CONDITIONS OF 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.
- The solar panel model SPA 365 and SPA 2XX when fitted without wire mesh back, shall only be installed in areas of low risk of mechanical damage.

16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant Essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 105082822CHE-001 dated 26th September 2023.

17. ROUTINE (FACTORY) TESTS

Each panel shall be subjected to a dielectric strength test at 1500V AC for 1 minute. The current flowing shall not exceed 5mA and no breakdown of the insulation shall occur.

18. DETAIL OF CERTIFICATE CHANGES

R.1 (4th October 2023):

- Addition of model SPA-365
- Additional manufacturing location of JCE (Europe) Ltd., East Way, Lee Mill Industrial Estate, Ivybridge, Devon, PL21 9LL
- Addition of optional ambient range of -20°C to +50°C.
- Addition of Specific Condition of Use "The solar panel model SPA 365 and SPA 2XX when fitted without wire mesh back, shall only be installed in areas of low risk of mechanical damage".