



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	<b>IECEx ITS 18.0001X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 1	<a href="#">Issue 0 (2018-04-30)</a>
Date of Issue:	2023-10-04		
Applicant:	<b>JCE Group (UK) Ltd.</b> Blackburn Business Park Aberdeen Grampian AB21 0PS <b>United Kingdom</b>		
Equipment:	<b>SPA-2XX and SPA-365 Zone 2 Solar Panel</b>		
Optional accessory:			
Type of Protection:	<b>Increased Safety, Encapsulation</b>		
Marking:	Ex ec mc IIC T4 Gc  -20°C ≤ Ta ≤ +45°C or -20°C ≤ Ta ≤ +50°C  IECEx ITS 18.0001X		

Approved for issue on behalf of the IECEx  
Certification Body:

**Mark Newman**

Position:

**Certificate Officer**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**Intertek Testing & Certification Limited**  
ITS House, Cleeve Road  
Leatherhead  
Surrey, KT22 7SA  
**United Kingdom**

**intertek**



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Manufacturer: **JCE Group (UK) Ltd.**  
Blackburn Business Park  
Aberdeen  
Grampian  
AB21 0PS  
**United Kingdom**

Manufacturing  
locations: **JCE Group (UK) Ltd.**  
Blackburn Business Park  
Aberdeen  
Grampian  
AB21 0PS  
**United Kingdom**

**JCE (Europe) Limited**  
East Way  
Lee Mill Industrial Estate  
Ivybridge  
Devon  
PL21 9LL  
**United Kingdom**

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 equipment 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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-18:2014** Explosive atmospheres – Part 18: Equipment protection by encapsulation “m”  
Edition:4.0

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety “e”  
Edition:5.1

This Certificate **does not** indicate compliance with 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 Reports:

**GB/ITS/ExTR18.0003/00**

**GB/ITS/ExTR18.0003/01**

Quality Assessment Reports:

**GB/ITS/QAR11.0014/06**

**GB/SIR/QAR10.0001/08**



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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	9.26
SPA-xx/xx	1662 max	990 max	38.3 max	9.26 max
SPA-365	1984	1000	49.1	9.17

Dimensions are nominal  $\pm 2.5$ 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, 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.

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- 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.



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 01

- 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."

## Annex:

[IECEx ITS 18.0001X - Annex for IECEx Certificate of Conformity\\_1.pdf](#)



## Annex to IECEx Certificate of Conformity

<b>Certificate No:</b>	IECEX ITS 18.0001X	<b>Issue No. 1</b>
<b>Annex No. 1</b>		

Technical Documents			
Title:	Drawing No.:	Rev. 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.

Required Manufacturer Routine Testing		
Test	Title/Description of Test	Standard and Clause
1	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.	IEC 60079-7:2015 Ed 5.1

Certificate issued by:

**intertek**  
Total Quality. Assured.

**Intertek Testing and Certification  
Ltd**  
Intertek House, Cleeve Road,  
Leatherhead, Surrey, KT22 7SA,  
UK

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SFT-IECEX-OP-19f (26 October 2018)