



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx ITS 18.0001X

Issue No: 0

Certificate history:

[Issue No. 0 \(2018-04-30\)](#)

Status: **Current**

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Date of Issue: **2018-04-30**

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

Equipment: **SPA-280 Zone 2 Solar Panel**

Optional accessory:

Type of Protection: **Increased Safety, Encapsulation**

Marking:

Ex ec mc IIC T4 Gc

IECEX ITS 18.0001X

-20°C ≤ Ta ≤ 45°C

*Approved for issue on behalf of the IECEx
Certification Body:*

V K Varma

Position:

Certification Officer

*Signature:
(for printed version)*

Date:

2018-04-30

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](#).

Certificate issued by:

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





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

Additional Manufacturing location(s):

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 apparatus 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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-18 : 2014 Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation “m”
IEC 60079-7 : 2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical 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 Report:

[GB/ITS/ExTR18.0003/00](#)

Quality Assessment Report:

[GB/ITS/QAR11.0014/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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 ± 2.5 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:

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.



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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.

Annex:

[Annex for IECEx Certificate of Conformity IECEx ITS 18.0001X Issue 0.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ITS 18.0001X	Issue No. 0
Annex No. 1		

Technical 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

Certificate issued by:

intertek

Total Quality. Assured.

Intertek Testing & Certification Limited
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