



# 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](http://www.iecex.com)

Certificate No.: IECEx DEK 11.0023

Issue No: 0

Certificate history:

[Issue No. 0 \(2011-06-06\)](#)

Status: **Current**

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Date of Issue: **2011-06-06**

Applicant: **Swift Energy Sdn. Bhd.**  
Block D2-06, Pusat Perdagangan Dana 1  
Jalan PJU1A/46  
47301 Petaling Jaya  
Selangor West  
**Malaysia**

Equipment: **Solar Module Type SM085EX**

*Optional accessory:*

Type of Protection: **Ex e mb**

Marking: Ex e mb IIC T4 Gb

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

R.H.D. Pommé

*Position:*

Certification Manager

*Signature:  
(for printed version)*

*Date:*

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:

**DEKRA Certification B.V.**  
Utrechtseweg 310  
6812 AR Arnhem  
The Netherlands





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Manufacturer: **Swift Energy Sdn. Bhd.**  
Block D2-06, Pusat Perdagangan Dana 1  
Jalan PJU1A/46  
47301 Petaling Jaya  
Selangor west  
**Malaysia**

Additional Manufacturing location(s):

**Swift Energy Sdn. Bhd.**  
Block D2-06, Pusat Perdagangan Dana 1,  
Jalan PJU1A/46, 47301 Petaling Jaya,  
Selangor west  
Malaysia

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 electrical 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:

<b>IEC 60079-0 : 2007-10</b> Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
<b>IEC 60079-18 : 2009</b> Edition:3	Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
<b>IEC 60079-7 : 2006-07</b> Edition:4	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:

[NL/DEK/ExTR11.0024/00](#)

Quality Assessment Report:

[NL/DEK/QAR11.0005/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Solar Module Type SM085EX contains 4 x 9 high efficiency series connected solar cells, a junction box in type of protection increased safety "e", a partly encapsulated terminal block and an electronics assembly.  
The Solar Module may be connected as stated below.

Ambient temperature range -20 °C to +55 °C.

### Electrical Data

Output Rating: max. 30 V, 100 W

Max system operation voltage: 275 V

Connection of the Solar Module	Maximum output rating of the junction box
2 Modules in series	48 V, 200 W
2 Modules parallel	30 V, 200 W
2 Modules in series / 2 parallel	48 V, 400 W
2 Modules in series / 3 parallel	48 V, 600 W

**SPECIFIC CONDITIONS OF USE: NO**