

# Certificate

Registration No.: PV 50303539

Page 1

Report No.: 50018506-001

**License Holder:**

**Solar Frontier K. K.**  
Daiba Frontier Bldg. 2-3-2 Daiba  
Minato-ku, Tokyo  
135-8074, Japan

**Product:**

PV Module  
Type:  
SCxx-EX-A, SFxx-EX-A (xx=70, 75, 80, 85, 90)  
SCxxH-EX-A, SFxxH-EX-A (xx=77, 82, 87, 92)  
SCxx-EX-B, SFxx-EX-B (xx=70, 75, 80, 85, 90)  
SCxxH-EX-B, SFxxH-EX-B (xx=77, 82, 87, 92)  
SFLxx-D (xx = 85, 90, 95, 100)  
SFLxx-E (xx = 85, 90)  
SFLxxH-D (xx = 87, 92, 97)  
SFLxxH-E (xx = 87, 92)  
SFLxx-F (xx = 85, 90)  
SFLxxH-F (xx = 87)

**Manufacturing Plant:**

**Solar Frontier K. K.**  
Miyazaki Plant 2  
789-20 Kanou hei, Kiyotake-cho  
Miyazaki-shi, Miyazaki  
889-1605 Japan

**Basis:**

- IEC 61646:2008**  
**EN 61646:2008**  
"Thin-film terrestrial photovoltaic (PV) modules - Design qualification and type approval"
- Factory Inspection**  
To document the consistent quality of the product factory inspections are performed periodically.



www.tuv.com  
ID 000023497

**Conditions:**

The product test is voluntarily according to technical regulations. Any change of the design, materials, components or processing may require the repetition of some of the qualification tests in order to retain type approval.  
**The certificate has a validity of 5 years counting from date of issue.**



**Certification body**



Yokohama, 09 February 2015

Hideo Naomoto

TÜV Rheinland Japan Ltd. – Yokohama 222-0033, Japan

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**Solar Frontier K. K.**  
Daiba Frontier Bldg. 2-3-2 Daiba  
Minato-ku, Tokyo  
135-8074, Japan

**Product:**

PV Module  
Type:  
SFxxx-L (xxx=130-160 in 5W steps)  
SFxxx-R (xxx=130-165 in 5W steps)  
SFxxx-S (xxx=130-175 in 5W steps)  
SFxxx-T (xxx=130-175 in 5W steps)  
SFxxx-W (xxx=130-175 in 5W steps)

**Manufacturing Plant:**

**Solar Frontier K. K.**  
Kunitomi Plant  
1815 Tajiri, Kunitomi-cho  
Higashimorokata-gun Miyazaki  
880-1104 Japan

**Basis:**

- IEC 61646:2008**  
**EN 61646:2008**  
"Thin-film terrestrial photovoltaic (PV) modules - Design qualification and type approval"
- Factory Inspection**  
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**Remarks:**

- The mechanical load test of IEC EN 61646:2008 was performed with a load of 5400 Pa. for the above listed SFxxx-W Series.

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**The certificate is valid for 5 years from the date of issue stated on page 1.**



**Certification body**



Yokohama, 09 February 2015

Hideo Naomoto

TÜV Rheinland Japan Ltd. – Yokohama 222-0033, Japan