



**SUPSI**

Swiss PV Module Test Centre

Trevano, CP 105, CH-6952 Canobbio  
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# Certificate

**n. 12 - 040**

Released by: **SWISS PV Module Test Centre**  
SAS accredited laboratory ISO 17025 N. 531  
*SAS is a EA member for the accreditation of testing laboratories in Switzerland*

Based on the test report: n. 12 – 040 dated 17.06.2012  
Released by: SWISS PV Module Test Centre – CH 6952 Canobbio - Campus Trevano

We declare that the product:

## PHOTOVOLTAIC MODULES

Type: **Fine Energy FECN-F95**

Manufactured by:

**Fine Energy GmbH**  
Grütlimatte, 15  
CH – 8840 Einsiedeln

License holder:

**Fine Energy GmbH**  
Grütlimatte, 15  
CH – 8840 Einsiedeln

As results of test made the product passed

## HAIL TESTING

25 mm diameter – speed from 23m/sec

Technical data, materials and components description are listed in the report. Any changes of the design, materials, components or processing may require the repetition of testing.

Lamone, 17.07.2012

*Thomas Friesen*  
Head SWISS PV Module Test Centre  
Dr. Thomas Friesen



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The testing was executed following the IEC 61646 standards with ice balls

Diameter 25 mm  
Ice temperature - 4°C  
Speed 23 m/sec

On the positions indicated in the IEC 61646 cap. 10.17 standard and critical positions as indicated in the test report

Tested module type:

Type	cell number	cell technology	Module size	Power
FECN-F95	32	monocrystalline Si	1050 x 540 mm	95 W

Lamone, 17.07.2012

A handwritten signature in black ink that reads 'Thomas Friesen'.

Head SWISS PV Module Test Centre  
Dr. Thomas Friesen