



SUPSI

Swiss PV Module Test Centre

Trevano, CP 105, CH-6952 Canobbio
P +41 (0)58 666 63 51, F +41 (0)58 666 63 49

Certificate

n. 12 - 057

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 – 057 dated 17.06.2012
Released by: SWISS PV Module Test Centre – CH 6952 Canobbio - Campus Trevano

We declare that the product:

PHOTOVOLTAIC MODULES

Type: **JA Solar JAM6-60/SI**

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

35 mm diameter – speed of 28m/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

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

Head SWISS PV Module Test Centre
Dr. Thomas Friesen



SUPSI

Swiss PV Module Test Centre

Trevano, CP 105, CH-6952 Canobbio
P +41 (0)58 666 63 51, F +41 (0)58 666 63 49

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

Diameter	35 ± 1 mm
Ice temperature	-4 ± 2 °C
Speed	28 ± 1.5 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
JA Solar JAM6-60/SI	60	multicrystalline - Si	990 x 1650 mm	250

Lamone, 17.07.2012

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

Head SWISS PV Module Test Centre
Dr. Thomas Friesen