

Certificate

Registration No.: PV 60022342

Page 1

Report No.: 21205461-2

License Holder:

SOLON AG für Solartechnik

Am Studio 16
12489 Berlin
Germany

Manufacturing Plant:

SOLON Nord GmbH

Siemensallee 1
17489 Greifswald
Germany

Product:

PV Modules

Type:

M130/6+/07 (xxx); from 120 to 150 Wp in 5 W steps
M180/6+/07 (xxx); from 155 to 195 Wp in 5 W steps
M230/6+/07 (xxx); from 200 to 245 Wp in 5 W steps
M230/6+/01 (xxx); from 200 to 245 Wp in 5 W steps
M230/6+/Blackline (xxx); from 200 to 250 Wp in 5 W steps
M230/6+/03 (xxx); from 200 to 245 Wp in 5 W steps

SOLON Black 130/07 (xxx); from 120 to 150 Wp in 5 W steps
SOLON Black 180/07 (xxx); from 155 to 195 Wp in 5 W steps
SOLON Black 230/07 (xxx); from 200 to 245 Wp in 5 W steps
SOLON Black 230/01 (xxx); from 200 to 245 Wp in 5 W steps
SOLON Black 230/02 (xxx); from 200 to 245 Wp in 5 W steps
SOLON Black 230/03 (xxx); from 200 to 245 Wp in 5 W steps

xxx = 860, 806 for 860 VDC or 806 VDC max. system voltage
without xxx = 1000 VDC max. system voltage

Basis:

- IEC 61730-1:2004
IEC 61730-2:2004
EN 61730-1:2007
EN 61730-2:2007
"Photovoltaic (PV) module safety qualification"

- Factory Inspection**
To document the consistent quality of the product factory inspections are performed periodically.



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic Inspection

Remarks:

- IEC EN 61730 consists of part 1 (Requirements for construction) and part 2 (Requirements for testing).
- The above listed PV modules fulfil the requirements of Application Class A (Safety Class II). They may be used in PV plants at a maximum system voltage (Voc at STC) of up to **860 VDC**.
- The fire test (IEC 61730-2 / MST 23) was not performed.

The details of the factory inspection are documented in report no. 21209705.

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 is valid until 7 May 2013.



Cologne, 11 August 2008

Dipl.-Ing. M. Adrian

Certificate

Registration No.: PV 60022342

Page 2

Report No.: 21205461-2

Lincense Holder:

SOLON AG für Solartechnik

Am Studio 16
12489 Berlin
Germany

Manufacturing Plant:

SOLON Hilber Technologie GmbH

Erlach 165
A-6150 Steinach am Brenner
Austria

Product:

PV Modules

Type:

M130/6+/07 (xxx); from 120 to 150 Wp in 5 W steps
M180/6+/07 (xxx); from 155 to 195 Wp in 5 W steps
M230/6+/07 (xxx); from 200 to 245 Wp in 5 W steps
M230/6+/01 (xxx); from 200 to 245 Wp in 5 W steps
M230/6+/Blackline (xxx); from 200 to 250 Wp in 5 W steps
M230/6+/03 (xxx); from 200 to 245 Wp in 5 W steps

SOLON Black 130/07 (xxx); from 120 to 150 Wp in 5 W steps
SOLON Black 180/07 (xxx); from 155 to 195 Wp in 5 W steps
SOLON Black 230/07 (xxx); from 200 to 245 Wp in 5 W steps
SOLON Black 230/01 (xxx); from 200 to 245 Wp in 5 W steps
SOLON Black 230/02 (xxx); from 200 to 245 Wp in 5 W steps
SOLON Black 230/03 (xxx); from 200 to 245 Wp in 5 W steps

xxx = 860, 806 for 860 VDC or 806 VDC max. system voltage
without xxx = 1000 VDC max. system voltage

Basis:

- IEC 61730-1:2004
IEC 61730-2:2004
EN 61730-1:2007
EN 61730-2:2007
"Photovoltaic (PV) module safety qualification"

- Factory Inspection**
To document the consistent quality of the product factory inspections are performed periodically.



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic Inspection

Remarks:

- IEC EN 61730 consists of part 1 (Requirements for construction) and part 2 (Requirements for testing).
- The above listed PV modules fulfil the requirements of Application Class A (Safety Class II). They may be used in PV plants at a maximum system voltage (Voc at STC) of up to **860 VDC**.
- The fire test (IEC 61730-2 / MST 23) was not performed.

The details of the factory inspection are documented in report no. 21209704.

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 is valid until 7 May 2013.

Cologne, 11 August 2008



Dipl.-Ing. M. Adrian

Certificate

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Page 3

Report No.: 21205461-2

License Holder:

SOLON AG für Solartechnik

Am Studio 16
12489 Berlin
Germany

Manufacturing Plant:

SOLON Photovoltaik GmbH

Am Studio 16
12489 Berlin
Germany

Product:

PV Modules

Type:

M130/6+/07 (xxx); from 120 to 150 Wp in 5 W steps
M180/6+/07 (xxx); from 155 to 195 Wp in 5 W steps
M230/6+/07 (xxx); from 200 to 245 Wp in 5 W steps
M230/6+/01 (xxx); from 200 to 245 Wp in 5 W steps
M230/6+/Blackline (xxx); from 200 to 250 Wp in 5 W steps
M230/6+/03 (xxx); from 200 to 245 Wp in 5 W steps

SOLON Black 130/07 (xxx); from 120 to 150 Wp in 5 W steps
SOLON Black 180/07 (xxx); from 155 to 195 Wp in 5 W steps
SOLON Black 230/07 (xxx); from 200 to 245 Wp in 5 W steps
SOLON Black 230/01 (xxx); from 200 to 245 Wp in 5 W steps
SOLON Black 230/02 (xxx); from 200 to 245 Wp in 5 W steps
SOLON Black 230/03 (xxx); from 200 to 245 Wp in 5 W steps

xxx = 860, 806 for 860 VDC or 806 VDC max. system voltage
without xxx = 1000 VDC max. system voltage

Basis:

- IEC 61730-1:2004
IEC 61730-2:2004
EN 61730-1:2007
EN 61730-2:2007
"Photovoltaic (PV) module safety qualification"

- Factory Inspection**
To document the consistent quality of the product factory inspections are performed periodically.



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic Inspection

Remarks:

- IEC EN 61730 consists of part 1 (Requirements for construction) and part 2 (Requirements for testing).
- The above listed PV modules fulfil the requirements of Application Class A (Safety Class II). They may be used in PV plants at a maximum system voltage (Voc at STC) of up to **860 VDC**.
- The fire test (IEC 61730-2 / MST 23) was not performed.

The details of the factory inspection are documented in report no. 21209706.

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 is valid until 7 May 2013.

Cologne, 11 August 2008


Certification body
Dipl.-Ing. M. Adrian