

Number	KIP-077402/05	Replaces	KIP-077402/04
Issued	17/02/2016	First edition	02/04/2013
Report number	121101310	Expiry date	16/02/2021
Page	1 of 2	Contract number	KIP PV 440

Product Certificate Photovoltaic (PV) Panels

The products:

License holder:	Solarnova Deutschland GmbH Am Marienhof 6, 22880 Wedel, Germany
Production site:	Solarnova Deutschland GmbH Am Marienhof 6, 22880 Wedel, Germany
Models:	Solarnova BiPV modules: SOL xxx K; SOL xxx GT (and extended models, where xxx suffix indicates the rated power)*

as listed in this certificate and marked with the below given Kiwa Cermet Italia mark for Photovoltaic (PV) Panels, can be considered complying to the Kiwa Cermet Italia Guideline "TD Ki – 0409, Solar Products and Components" based upon the following aspects:
Laboratory Testing of the panels, which are performed by an accredited laboratory in accordance to EN ISO/IEC 17025: 2005 -see annex-, using the following standards:

- IEC 61215:2005 / EN 61215:2005
Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval
 - IEC 61730-1:2004 / EN 61730-1:2007
Photovoltaic (PV) module safety qualification – Requirements for construction
 - IEC 61730-2:2004 / EN 61730-2:2007
Photovoltaic (PV) module safety qualification – Requirements for testing
- Remarks:** to be used in plants at a maximum system voltage (V_{oc} at STC) up to 1000 Vdc (application Class A); fire test (IEC 61730-2 / MST 23) was not performed.

Periodic Inspection of the Factory site(s), according to "TD Ki – 0409", which includes:

- inspection of the manufacturing quality control and production procedures;
- inspection of the produced panels and confirmation that these are identical to the tested panels;
- periodic verification of the manufacturer test facilities.

This certificate is issued in accordance with the Kiwa Cermet Italia regulations.

Publication of the certificate is allowed.

The validity of this certificate is subject to the positive result of periodic surveillance visits

Chief Operating Officer
Giampiero Belcredi



Member of the IECCE CB-Scheme



Certificate

Kiwa Cermet Italia S.p.A.

Società con socio unico, soggetta all'attività di direzione e coordinamento di Kiwa Italia Holding Srl

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SGQ N° 007A SSI N° 006G
SGA N° 010D FSM N° 004I
PRD N° 069B

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Annex Extended models*

- Superstrate Glass: refer to the CDF nr. 121101310 rev.04
- Substrate Glass: refer to the CDF nr. 121101310 rev.04
- Substrate Tedlar: refer to the CDF nr. 121101310 rev.04
- Maximum module size: length 3700 mm, width 2500 mm
- Maximum peak Power: 1620 Wp (multiple subassemblies)
- Maximum system Voltage: 1000 V
- Encapsulation material type: refer to the CDF nr. 121101310 rev.04
- Maximum number of cells per module: 345
- Maximum number of cells per bypass diode: 24
- Cells type: refer to the CDF nr. 121101310 rev.04
- Junction box type: refer to the CDF nr. 121101310 rev.04
- By-pass diode type: refer to the CDF nr. 121101310 rev.04
- Cables and connectors type: refer to the CDF nr. 121101310 rev.04
- Glass sizes and glass thicknesses may be varied, subject to meeting the glazing and building national standards, with a consideration to the imposed static and live loads

Chief Operating Officer
Giampiero Belcredi



Laboratory tests reports nr.: L121101310A-1 rev.0, L121101310A-2 rev.0, L121101310B-1 rev.0, L121101310B-2 rev.0, L121101310C-1 rev.0, L121101310C-2 rev.0, L121101310D-1 rev.0, L121101310D-2 rev.0, L121101310E-1 rev.0, L121101310E-2 rev.0, L121101310F-1 rev.0, L121101310F-2 rev.0, L121101310G rev.0, L0000105 rev.00.

Additional information:

The models listed in the certificate are considered BiPV (Building Integrated Photovoltaic Module). For the sizes, output power, number of cells and combination of the different components in the samples has been followed the following guide line: MCS 017 - Product Certification Scheme Requirements: Bespoke Building Integrated Photovoltaic Products, issue 1.1 (BiPV standard for the UK Market), due to the lack of a specific standard for BiPV products from the IEC.

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