

Certificate number	16900 Rev.3	Replaces	16900 Rev.2
Issued	13/03/2023	First edition	16/11/2021
Report number	PKC0005032	Expiry date	15/11/2026
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Product Certificate Photovoltaic (PV) Panels

License holder: Solvis d.o.o.
Vesne Parun 15, HR-42000 Varaždin, Croatia

Production site (1): Solvis d.o.o.
Vesne Parun 15, HR-42000 Varaždin, Croatia

Production site (2): Solvis d.o.o.
Ivane Brlić Mažuranić 25, HR-42000 Varaždin, Croatia

Model(s): SV144-XXX E (YYY) HC, SV120-XXX E (YYY) HC,
SV144-XXX E (YYY) HC9B, SV120-XXX E (YYY) HC9B
(see extended models in the Annex)*

The product 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 requirements of 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 ISO/IEC 17025 -see annex-, using the following standards:

- IEC 61215-1:2016 / EN 61215-1:2016
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1: Test requirements
- IEC 61215-1-1:2016 / EN 61215-1-1:2016
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules
- IEC 61215-2:2016 / EN 61215-2:2017
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 2: Test procedures
- IEC 61730-1:2016 / EN IEC 61730-1:2018
Photovoltaic (PV) module safety qualification – Part 1: Requirements for construction
- IEC 61730-2:2016 / EN IEC 61730-2:2018
Photovoltaic (PV) module safety qualification – Part 2: Requirements for testing

Remarks: to be used in plants at a maximum system voltage (Voc at STC) up to 1500 Vdc (Class II); fire test (IEC 61730-2 / MST 23 – Class C) was 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.

The validity of this certificate can be verified on request at the following e-mail address: energy@kiwacermet.it.

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President
Giampiero Belcredi



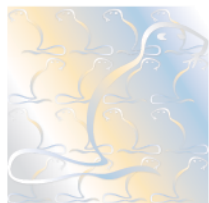
PRD N° 069B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements



Kiwa Cermet Italia S.p.A.
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Annex

Extended models*

Model name	Cells number	Cell size (mm)	Cell technology	Module size ³ (mm)	Rated power (Wp)
SV144-XXX E (YYY) HC ¹	144	158,75x79,375	Mono-Si	2001x1000x35	From 400 to 380 in steps of 5
SV144-XXX E (YYY) HC ²	144	158,75x79,375	Mono-Si	2001x1000x35	From 415 to 385 in steps of 5
SV120-XXX E (YYY) HC ¹	120	158,75x79,375	Mono-Si	1685x1000x35	From 330 to 315 in steps of 5
SV120-XXX E (YYY) HC ²	120	158,75x79,375	Mono-Si	1685x1000x35	From 350 to 320 in steps of 5
SV144-XXX E (YYY) HC9B ¹	144	166x83	Mono-Si	2094x1038x35	From 440 to 400 in steps of 5
SV144-XXX E (YYY) HC9B ²	144	166x83	Mono-Si	2094x1038x35	From 455 to 410 in steps of 5
SV120-XXX E (YYY) HC9B ¹	120	166x83	Mono-Si	1755x1038x35	From 375 to 330 in steps of 5
SV120-XXX E (YYY) HC9B ²	120	166x83	Mono-Si	1755x1038x35	From 390 to 340 in steps of 5

Remarks: XXX = rated power. E = mono-Si solar cells. YYY = optional suffix. The YYY suffix can be: F = black frame and white backsheet; B = silver frame and black backsheet; BC = black frame and black backsheet. Without YYY suffix = silver frame and white backsheet. HC = half cell module.

¹ modules with black backsheet.

² modules with white backsheet.

³ Maximum allowed dimensions:

- Model SV144-XXX E (YYY) HC and SV120-XXX E (YYY) HC: length 2401 mm; width 1200 mm; area 2,40 m² (length x width = must not exceed max area 2,40 m²).

- Model SV144-XXX E (YYY) HC9B and SV120-XXX E (YYY) HC9B: length 2513 mm; width 1246 mm; area 2,61 m² (length x width = must not exceed max area 2,61 m²).

³ Minimum allowed dimensions:

- Length: - 2 mm starting from the above listed dimensions

- Width: - 2 mm starting from the above listed dimensions

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2.00.80564.1.0-05a, L0011144/A rev.00, L0011144/B rev.00, L0011144/C rev.00, L0005276 rev.00, L0011637/A
rev.01; L0011637/B rev.01, L0012197/A rev.00, L0012197/B rev.00.



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