

Certificate number	7939 Rev.0	Replaces	-
Issued	02/07/2025	First edition	02/07/2025
Report number	PKC0013663	Expiry date	01/07/2030
Page	1 of 3	Contract number	PKC0005435

Product Certificate Photovoltaic (PV) Panels

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

Production site(s): Solvis d.o.o.:
- Vesne Parun 15, HR-42000 Varaždin, Croatia
- Ivane Brlić Mažuranić 25, HR-42000 Varaždin, Croatia

Model(s): SVyyy-xxx E HCM10; SVyyy-xxx E F HCM10; SVyyy-xxx E BC HCM10;
SVyyy-xxx E HCM10 P; SVyyy-xxx E F HCM10 P; SVyyy-xxx E HCG12R;
SVyyy-xxx E F HCG12R; SVyyy-xxx E BC HCG12R
(where: yyy = number of solar cells; xxx = rated power. See 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 61215-1:2021 / EN IEC 61215-1:2021
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1: Test requirements
- IEC 61215-1-1:2021 / EN IEC 61215-1-1:2021
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules
- IEC 61215-2:2021 / EN IEC 61215-2:2021
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 2: Test procedures
- EN IEC 61730-1:2018
Photovoltaic (PV) module safety qualification – Part 1: Requirements for construction
- 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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Kiwa Cermet Italia S.p.A.

**Società con socio unico, soggetta
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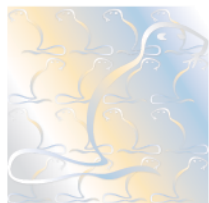
Industry Division Manager
Maurizio Lorenzon



PRD N° 0069PRD

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Annex*

Model name	Cells number	Cell size (mm)	Cell technology	Module size (mm)	Rated power (Wp)
SV144-xxx E HCM10	144	182x91; 182,2x91,1	Mono-Si TOPCon	2278x1134x30 /35	From 545 to 585 in steps of 5
SV144-xxx E F HCM10	144	182x91; 182,2x91,1	Mono-Si TOPCon	2278x1134x30 /35	From 545 to 585 in steps of 5
SV120-xxx E HCM10	120	182x91; 182,2x91,1	Mono-Si TOPCon	1909x1134x30 /35	From 455 to 490 in steps of 5
SV120-xxx E F HCM10	120	182x91; 182,2x91,1	Mono-Si TOPCon	1909x1134x30 /35	From 455 to 490 in steps of 5
SV108-xxx E HCM10	108	182x91; 182,2x91,1	Mono-Si TOPCon	1722x1134x30 /35	From 405 to 440 in steps of 5
SV108-xxx E F HCM10	108	182x91; 182,2x91,1	Mono-Si TOPCon	1722x1134x30 /35	From 405 to 440 in steps of 5
SV108-xxx E BC HCM10	108	182x91; 182,2x91,1	Mono-Si TOPCon	1722x1134x30 /35	From 405 to 440 in steps of 5
SV144-xxx E HCM10 P	144	182x91	Mono-Si PERC	2278x1134x30 /35	From 535 to 550 in steps of 5
SV144-xxx E F HCM10 P	144	182x91	Mono-Si PERC	2278x1134x30 /35	From 535 to 550 in steps of 5
SV120-xxx E HCM10 P	120	182x91	Mono-Si PERC	1909x1134x35	From 445 to 460 in steps of 5
SV120-xxx E F HCM10 P	120	182x91	Mono-Si PERC	1909x1134x30 /35	From 445 to 460 in steps of 5
SV108-xxx E HCM10 P	108	182x91	Mono-Si PERC	1722x1134x30 /35	From 400 to 415 in steps of 5
SV108-xxx E F HCM10 P	108	182x91	Mono-Si PERC	1722x1134x30 /35	From 400 to 415 in steps of 5

Remarks: xxx = rated power; F = black frame and white backsheet; BC = black frame and black backsheet;
without F or BC = silver frame and white backsheet; P = mono-Si PERC solar cells.

Kiwa Cermet Italia S.p.A.

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Industry Division Manager

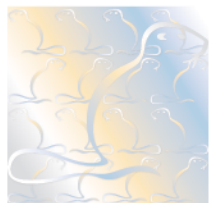
Maurizio Lorenzon



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CERTIFICATE



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Annex*

Model name	Cells number	Cell size (mm)	Cell technology	Module size (mm)	Rated power (Wp)
SV132-xxx E HCG12R	132	182,3x105	Mono-Si TOPCon	2382x1134x35	From 605 to 640 in steps of 5
SV132-xxx E F HCG12R	132	182,3x105	Mono-Si TOPCon	2382x1134x35	From 605 to 640 in steps of 5
SV132-xxx E BC HCG12R	132	182,3x105	Mono-Si TOPCon	2382x1134x35	From 590 to 635 in steps of 5
SV108-xxx E HCG12R	108	182,3x105	Mono-Si TOPCon	1961x1134x35	From 495 to 525 in steps of 5
SV108-xxx E F HCG12R	108	182,3x105	Mono-Si TOPCon	1961x1134x35	From 495 to 525 in steps of 5
SV108-xxx E BC HCG12R	108	182,3x105	Mono-Si TOPCon	1961x1134x35	From 490 to 520 in steps of 5
SV96-xxx E HCG12R	96	182,3x105	Mono-Si TOPCon	1762x1134x30	From 440 to 465 in steps of 5
SV96-xxx E F HCG12R	96	182,3x105	Mono-Si TOPCon	1762x1134x30	From 440 to 465 in steps of 5
SV96-xxx E BC HCG12R	96	182,3x105	Mono-Si TOPCon	1762x1134x30	From 435 to 460 in steps of 5

Remarks: xxx = rated power; F = black frame and white backsheet ; BC = black frame and black backsheet; without F or BC = silver frame and white backsheet.

Industry Division Manager

Maurizio Lorenzon

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Laboratory test reports nr.: 704062342301-00; 704062342301-01; 704062342301-02; 2024459CNT_V1 part 1 of 2; 2024459CNT_V1 part 2 of 2; GDP251103.



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