



CERTIFICATE

Certificate number	16867 Rev.5	Replaces	16867 Rev.4
Issued	13/05/2024	First edition	20/07/2021
Report number	PKC0004151	Expiry date	19/07/2026
Page	1 of 5	Contract number	PKC0005323

Product Certificate Photovoltaic (PV) Panels

License holder: GruppoSTG Fabbrica Srl
Via Pietro Paleocapa 19 – 24122 Bergamo (BG), Italy

Brand name: VGS – Photovoltaic Solutions

Production site(s): GruppoSTG Fabbrica Srl
Via Emilia 12 – 13855 Valdenigo (BI), Italy

Model(s): VE1YYPVPB-XXX W; VE1YYPV-XXX W; VE1YYPVTT-XXX W; VE3YYPVTB-XXX W;
VE3YYPV-XXX W; VE3YYPVMR-XXX W; VE3YYPVFG-XXX W; VE1YYPVFL-XXX W;
VE1YYPVPBFL-XXX W; VE3YYPVTT-XXX W; VE1YYPVSF-XXX W;
VE1YYPVTTSF-XXX W; VE1YYPVPBSF-XXX W; VE3YYPVSF-XXX W;
VE3YYPVFGSF-XXX W; VE3YYPVMRSF-XXX W; VE3YYPVTBSF-XXX W
(where: "YY" = number of solar cells; "XXX" = rated power. 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 1000 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.

Any total or partial reproduction of this document in any form, without Kiwa Cermet Italia express authorization, is prohibited.

Kiwa Cermet Italia S.p.A.
Società con socio unico, soggetta all'attività di direzione e coordinamento di Kiwa Italia Holding Srl

Via Cadriano, 23
40057 Granarolo dell'Emilia (BO)
Tel +39.051.459.3.111
Fax +39.051.763.382
E-mail: info@kiwacermet.it
www.kiwa.it

Industry Division Manager
Maurizio Lorenzon



PRD N° 069B

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





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 Page 2 of 5 Contract number PKC0005323

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Annex Extended models*

Model name	Cells number	Cell size (mm)	Cell technology	Module size ¹ (mm)	Rated power (Wp)
VE172PVPB-XXX W	72	157x157	Poly-Si	1980x1000x40 1980x1000x35	From 295 to 325 in steps of 5
VE172PV-XXX W	72	157x157	Poly-Si	1980x1000x40 1980x1000x35	From 300 to 345 in steps of 5
VE172PVFL-XXX W	72	157x157	Poly-Si	1950x985x5	From 300 to 345 in steps of 5
VE160PVPB-XXX W	60	157x157	Poly-Si	1650x1000x40 1650x1000x35 1635x990x40 1635x990x35	From 245 to 270 in steps of 5
VE160PVPBFL-XXX W	60	157x157	Poly-Si	1630x985x5	From 245 to 270 in steps of 5
VE160PV-XXX W	60	157x157	Poly-Si	1650x1000x40 1650x1000x35 1635x990x40 1635x990x35	From 260 to 285 in steps of 5
VE160PVFL-XXX W	60	157x157	Poly-Si	1630x985x5	From 260 to 285 in steps of 5
VE154PV-XXX W	54	157x157	Poly-Si	1476x990x40 1476x990x35	From 220 to 240 in steps of 5
VE154PVTT-XXX W	54	157x157	Poly-Si	1650x992x40 1650x992x35	From 220 to 240 in steps of 5
VE150PV-XXX W	50	157x157	Poly-Si	1635x830x40 1635x830x35	From 200 to 220 in steps of 5
VE150PVFL-XXX W	50	157x157	Poly-Si	1628x823x5	From 200 to 220 in steps of 5
VE148PV-XXX W	48	157x157	Poly-Si	1317x989x40 1317x989x35 1650x1000x40 1650x1000x35	From 190 to 210 in steps of 5
VE136PVTT-XXX W	36	157x157	Poly-Si	1650x992x40 1650x992x35	From 145 to 160 in steps of 5
VE136PV-XXX W	36	157x157	Poly-Si	1508x682x40 1508x682x35 1650x1000x40 1650x1000x35	From 145 to 160 in steps of 5

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Industry Division Manager

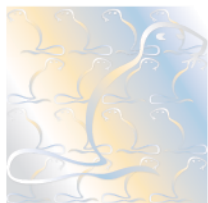
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 Page 3 of 5 Contract number PKC0005323

Product Certificate Photovoltaic (PV) Panels

Annex Extended models*

Model name	Cells number	Cell size (mm)	Cell technology	Module size ¹ (mm)	Rated power (Wp)
VE372PVTB-XXX W	72	158.75x158.75	Mono-Si	1980x1000x40 1980x1000x35	From 340 to 375 in steps of 5
VE372PV-XXX W	72	158.75x158.75	Mono-Si	1980x1000x40 1980x1000x35	From 355 to 395 in steps of 5
VE360PVTB-XXX W	60	158.75x158.75	Mono-Si	1650x1000x40 1650x1000x35	From 280 to 310 in steps of 5
VE360PV-XXX W	60	158.75x158.75	Mono-Si	1650x1000x40 1650x1000x35	From 295 to 325 in steps of 5
VE372PVMR-XXX W	72	158.75x158.75	Mono-Si	1980x1000x40 1980x1000x35	From 335 to 370 in steps of 5
VE372PVFG-XXX W	72	158.75x158.75	Mono-Si	1980x1000x40 1980x1000x35	From 315 to 345 in steps of 5
VE360PVMR-XXX W	60	158.75x158.75	Mono-Si	1650x1000x40 1650x1000x35	From 280 to 310 in steps of 5
VE360PVFG-XXX W	60	158.75x158.75	Mono-Si	1650x1000x40 1650x1000x35	From 250 to 300 in steps of 5
VE354PV-XXX W	54	158.75x158.75	Mono-Si	1492x1000x35	280
VE345PV-XXX W	45	158.75x158.75	Mono-Si	1610x861x35	235
VE340PV-XXX W	40	158.75x158.75	Mono-Si	1650x678x40 1650x678x35	From 195 to 215 in steps of 5
VE340PVTT-XXX W	40	158.75x158.75	Mono-Si	1650x1000x40 1650x1000x35	From 195 to 215 in steps of 5
VE336PV-XXX W	36	158.75x158.75	Mono-Si	1580x808x35 1492x678x35	190
VE332PVTT-XXX W	32	158.75x158.75	Mono-Si	1370x680x40 1370x680x35 1650x1000x40 1650x1000x35	Form 145 to 160 in steps of 5
VE329PVTT-XXX W	29	158.75x158.75	Mono-Si	1650x1000x40 1650x1000x35	From 130 to 145 in steps of 5

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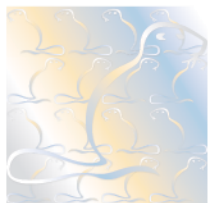
Industry Division Manager
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 Page 4 of 5 Contract number PKC0005323

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Annex Extended models*

Model name	Cells number	Cell size (mm)	Cell technology	Module size1 (mm)	Rated power (Wp)
VE136PVSF-XXX W	36	157x157	Poly-Si	1551x707x17	From 145 to 160 in steps of 5
VE136PVTTSF-XXX W	36	157x157	Poly-Si	1693x1017x17	From 145 to 160 in steps of 5
VE148PVSF-XXX W	48	157x157	Poly-Si	1360x1014x17 1693x1025x17	From 190 to 210 in steps of 5
VE150PVSF-XXX W	50	157x157	Poly-Si	1678x855x17	From 200 to 220 in steps of 5
VE154PVSF-XXX W	54	157x157	Poly-Si	1519x1014x17	From 220 to 240 in steps of 5
VE154PVTTSF-XXX W	54	157x157	Poly-Si	1693x1017x17	From 220 to 240 in steps of 5
VE160PVSF-XXX W	60	157x157	Poly-Si	1678x1014x17	From 260 to 285 in steps of 5
VE160PVPBSF-XXX W	60	157x157	Poly-Si	1678x1014x17	From 245 to 270 in steps of 5
VE166PVSF-XXX W	66	157x157	Poly-Si	1856x1025x17	From 270 to 295 in steps of 5
VE332PVTTSF-XXX W	32	158.75x158.75	Mono-Si	1413x705x17	From 145 to 160 in steps of 5
VE329PVTTSF-XXX W	29	158.75x158.75	Mono-Si	1693x1025x17	From 130 to 145 in steps of 5
VE336PVSF-XXX W	36	158.75x158.75	Mono-Si	1535x703x17	190
VE340PVSF-XXX W	40	158.75x158.75	Mono-Si	1693x703x17	From 195 to 215 in steps of 5
VE345PVSF-XXX W	45	158.75x158.75	Mono-Si	1653x886x17	235
VE354PVSF-XXX W	54	158.75x158.75	Mono-Si	1535x1025x17	280
VE360PVSF-XXX W	60	158.75x158.75	Mono-Si	1693x1025x17	From 295 to 325 in steps of 5
VE360PVTBSF-XXX W	60	158.75x158.75	Mono-Si	1693x1025x17	From 280 to 310 in steps of 5
VE360PVMRSF-XXX W	60	158.75x158.75	Mono-Si	1693x1025x17	From 280 to 310 in steps of 5
VE360PVFGSF-XXX W	60	158.75x158.75	Mono-Si	1693x1025x17	From 250 to 300 in steps of 5

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Page	5 of 5	Contract number	PKC0005323

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Annex Extended models*

Remarks: XXX = rated power.

VE1YYPVPB-XXX W, VE3YYPVTB-XXX W, VE3YYPVMR-XXX W, VE3YYPVFG-XXX W = modules with black/black backsheet.

VE1YYPV-XXX W, VE3YYPV-XXX W = modules with white/white backsheet.

VE1YYPVTT-XXX W, VE3YYPVTT-XXX W = modules with transparent backsheet.

VE3YYPVMR-XXX W = modules with red superstrate.

VE3YYPVFG-XXX W = modules with green superstrate.

VE1YYPVFL-XXX W and VE1YYPVPBFL-XXX W = frameless modules.

VE1YYPVSF-XXX W, VE1YYPVPBSF-XXX W, VE1YYPVTSF-XXX W, VE3YYPVSF-XXX W, VE3YYPVTBSF-XXX W, VE3YYPVMRSF-XXX W, VE3YYPVFGSF-XXX W = Solrif mounting system.

¹ Maximum allowed dimensions for framed modules:

- length : 2376 mm

- width : 1200 mm

- area : 2,38 m² (length x width = must not exceed max area 2,38 m²).

¹ Maximum allowed dimensions for frameless modules:

- length : 2340 mm

- width : 1182 mm

- area : 2,30 m² (length x width = must not exceed max area 2,30 m²).

¹ Maximum allowed dimensions for modules Solrif mounting system:

- length : 2227 mm

- width : 1230 mm

- area : 1,90 m² (length x width = must not exceed max area 2,28 m²).

Laboratory test reports nr.: 679.0CI0262/21; L0004151/A rev.00; L0004151/B rev.00; L0004501 rev.00; L0004151/C1 rev.00; L0004151/D1 rev.00; L0004151/C2 rev.00; L0004151/D2 rev.00; L0004601/B rev.00; L0004151/E1 rev.00; L0011481/A2 rev.00; L0011481/B1 rev.00; L0011481/B2 rev.00; L0011481/B3 rev.00; L0011481/B4 rev.00; L0011481/B5 rev.00; L0011481/D rev.00; L0011481/F rev.00; L0011481/C rev.00; L0011481/A1 rev.00; L0011634 rev.00; L0011656 rev.00; L0011980 rev.00; L0011981 rev.00; L0012086 rev.00; L0012498 rev.00; L0011481/E rev.00; L0012720/A rev.00; L0012720/B rev.00; L0012720/C rev.00; L0012719 rev.00; L0012759 rev.00; L0012899 rev.00; L0012999 rev.00.

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