CERTIFICATE

Certificate number	17020 Rev.2	Replaces	17020 Rev.1
Issued	10/05/2024	First edition	02/02/2022
Report number	PKC0004617	Expiry date	01/02/2027
Page	1 of 3	Contract number	PKC0011395

Product Certificate Photovoltaic (PV) Panels

License holder: **Trienergia S.r.l.**
Strada Pavesa 13/a, 46023 Bondeno di Gonzaga (MN), Italy

Production site(s): Trienergia S.r.l.
Strada Pavesa 13/a, 46023 Bondeno di Gonzaga (MN), Italy

Model(s): TRIXXXSM-BB; TRIXXXSM-WB; TRIXXXSP-BBS; TRIXXXSP-RR; TRIXXXDP-BB; TRIXXXDP-RR; TRIXXXTP-BB; TRIXXXTP-RR; TRIXXXHP-WB; TRIXXXVP-BB; TRIXXXVP-RR; TRIXXXVP-WB; TRIXXXHP-BB; TRIXXXHP-RR
(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.
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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

IEC 61215
IEC 61730

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Product Certificate Photovoltaic (PV) Panels

Annex
Extended models*

Model name	Cells number	Cell size (mm)	Cell technology	Module size (mm)	Rated power (Wp)
TRIXXXSM-BB	60	162.75x162.75	Mono-Si	1680 x 1016 x 35	From 320 to 350 in steps of 5
TRIXXXSM-WB	60	162.75x162.75	Mono-Si	1680 x 1016 x 35	From 340 to 350 in steps of 5
TRIXXXSP-BBS	60	166x166	Mono-Si	1712x1035x30/35	From 350 to 355 in steps of 5
TRIXXXSP-RR	60	166x166	Mono-Si	1712x1035x30/35	320
TRIXXXDP-BB	42	166x166	Mono-Si	1211x1035x30/35	245
TRIXXXDP-RR	42	166x166	Mono-Si	1211x1035x30/35	220
TRIXXXTP-BB	21	166x166	Mono-Si	1035x1035x195 x1118x195x30/35	115
TRIXXXTP-RR	21	166x166	Mono-Si	1035x1035x195 x1118x195x30/35	105

Industry Division Manager
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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

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Annex
Extended models*

Model name	Cells number	Cell size (mm)	Cell technology	Module size (mm)	Rated power (Wp)
TRIXXXVP-BB	132	166x83	Mono-Si	1889x1035x30/35	400
TRIXXXVP-RR	132	166x83	Mono-Si	1889x1035x30/35	360
TRIXXXVP-WB	132	166x83	Mono-Si	1889x1035x30/35	410
TRIXXXHP-WB	126	166x83	Mono-Si	1805x1035x30	390
TRIXXXHP-BB	126	166x83	Mono-Si	1805x1035x30/35	385
TRIXXXHP-RR	126	166x83	Mono-Si	1805x1035x30/35	350

Remarks: XXX = rated power; BB = black backsheet and black frame; WB = white backsheet and black frame; RR = black backsheet, red glass and red frame.

Industry Division Manager
Maurizio Lorenzon

Laboratory test reports nr.: L0004617 rev.00, 1562.0CI0262/20, L0011603 rev.00; L0012723/A rev.00; L0012723/B rev.00; L0012723/C rev.00; L0012723/D rev.00; L0012723/E rev.00; L0012723/F rev.00; L0012723/G rev.00; L0012723/H rev.00; L0012723/I rev.00; L0012723/L rev.00; L0012723/M rev.00; L0012723/N rev.00; L0013096/A rev.00; L0013096/B rev.00.

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