

Certificate number	16111 Rev.4	Replaces	16111 Rev.3
Issued	11/03/2020	First edition	21/12/2018
Report number	IN0000302/C	Expiry date	20/12/2023
Page	1 of 2	Contract number	IN0000379

Product Certificate Photovoltaic (PV) Panels

License holder:	Gazioğlu Solar Enerji San. Ve Tic. A.Ş. Çerkezköy OSB GOP mah. 7 Cd No.124 59500 Tekirdağ, Turkey
Production site(s):	Gazioğlu Solar Enerji San. Ve Tic. A.Ş. Çerkezköy OSB GOP mah. 7 Cd No.124 59500 Tekirdağ, Turkey
Model(s):	GSE YY PolyPower; GSE YY MonoPower (where "YY" = number of solar cells. 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
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1: Test requirements
- IEC 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
Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 2: Test procedures
- IEC 61730-1:2016
Photovoltaic (PV) module safety qualification – Part 1: Requirements for construction
- IEC 61730-2:2016
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

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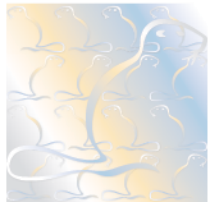
Chief Operating Officer
Giampiero Belcredi



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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Annex Extended models*

Model name	Cells number	Cell size (mm)	Cell technology	Module size (mm)	Rated power (Wp)
GSE 72 PolyPower	72	156,75x156,75	Poly-Si	1980 x 990 x 40	From 325 to 335 in steps of 5
GSE 60 PolyPower	60	156,75x156,75	Poly-Si	1665 x 990 x 35 1665 x 990 x 40	From 270 to 280 in steps of 5
GSE 72 MonoPower	72	156,75x156,75	Mono-Si	1967 x 992 x 40	From 370 to 390 in steps of 5
GSE 60 MonoPower	60	156,75x156,75	Mono-Si	1665 x 990 x 35 1665 x 990 x 40	From 310 to 325 in steps of 5

Chief Operating Officer
Giampiero Belcredi

Laboratory test reports nr.: 1062.0CI0262/18; L0000302/A rev.00; L0000302/C rev.00; L0000310/C rev.00; 458486/03.19; L0000371 rev.00; L0000387/A rev.00; L0000387/B rev.00; L0000387/C rev.00; 512470/01.20.

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