

Certificate number	15411 Rev.2	Replaces	15411 Rev.1
Issued	11/02/2019	First edition	13/10/2016
Report number	PKC0001334	Expiry date	25/10/2023
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Product Certificate Photovoltaic (PV) Panels

License holder:	Eclipse Italia S.r.l. Corso Venezia, 3 – 20121 Milano (MI), Italy
Production site(s):	Eclipse Italia S.r.l. Località Merlaro – 25078 Nozza di Vestone (BS), Italy
Model(s):	SOL XXX P; SOL XXX P F; SOL XXX M; SOL XXX M F; SOL XXX H (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 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 EN ISO/IEC 17025: 2005 -see annex-, using the following standards:

- IEC 61215:2005
Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval
- IEC 61730-1:2013
Photovoltaic (PV) module safety qualification – Requirements for construction
- IEC 61730-2:2012
Photovoltaic (PV) module safety qualification – Requirements for testing

Remarks: to be used in plants at a maximum system voltage (Voc at STC) up to 1000 Vdc (application Class A); fire test (IEC 61730-2 / MST 23 – Class C) was performed.

Periodic Inspection of the Factory site(s) performed by Kiwa Cermet Italia, 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.

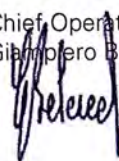
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Kiwa Cermet Italia S.p.A.
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Chief Operating Officer
Giampiero Belcredi




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Annex Extended models*

(Extended models according to IEC61215 "Retesting Guideline")

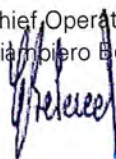
Model name	Cells number	Cell size (mm)	Cell technology	Module size (mm)	Rated power (Wp)
SOL XXX P	72	156x156 156.75x156.75	Poly-Si	1956x992	From 270 to 330 with 5 steps
SOL XXX P	66	156x156 156.75x156.75	Poly-Si	1799x992	From 250 to 300 with 5 steps
SOL XXX P	60	156x156 156.75x156.75	Poly-Si	1956x992 1640x992	From 210 to 285 with 5 steps
SOL XXX P	54	156x156 156.75x156.75	Poly-Si	1640x992 1485x992	From 205 to 255 with 5 steps
SOL XXX P	50	156x156 156.75x156.75	Poly-Si	1640x836	From 180 to 235 with 5 steps
SOL XXX P	48	156x156 156.75x156.75	Poly-Si	1640x992 1330x992	From 170 to 225 with 5 steps
SOL XXX P	36	156x156 156.75x156.75	Poly-Si	992x992	From 135 to 170 with 5 steps
SOL XXX P	20	156x156 156.75x156.75	Poly-Si	1640x400	From 75 to 95 with 5 steps
SOL XXX P	10	156x156 156.75x156.75	Poly-Si	1640x200	From 35 to 45 with 5 steps
SOL XXX M	72	156x156 156.75x156.75	Mono-Si	1956x992	From 310 to 370 with 5 steps
SOL XXX M	66	156x156 156.75x156.75	Mono-Si	1799x992	From 285 to 340 with 5 steps
SOL XXX M	60	156x156 156.75x156.75	Mono-Si	1956x992 1640x992	From 225 to 310 with 5 steps
SOL XXX M	54	156x156 156.75x156.75	Mono-Si	1640x992 1485x992	From 230 to 280 with 5 steps
SOL XXX M	50	156x156 156.75x156.75	Mono-Si	1640x836	From 185 to 260 with 5 steps
SOL XXX M	48	156x156 156.75x156.75	Mono-Si	1640x992 1330x992	From 180 to 245 with 5 steps
SOL XXX M	36	156x156 156.75x156.75	Mono-Si	992x992	From 150 to 185 with 5 steps
SOL XXX M	20	156x156 156.75x156.75	Mono-Si	1640x400	From 75 to 100 with 5 steps
SOL XXX M	10	156x156 156.75x156.75	Mono-Si	1640x200	From 40 to 50 with 5 steps

Remarks: XXX = rated power. Models SOL XXX P F and SOL XXX M F = frameless modules. Frame thickness = 35 mm, 40 mm, 43 mm or 45 mm. Module size can vary according to the limits of the IEC61215 Retesting Guideline if the minimum distances between module current carrying part and the edge of the module stay the same.

Kiwa Cermet Italia S.p.A.
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(Extended models according to IEC61215 "Retesting Guideline")

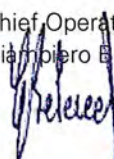
Model name	Cells number	Cell size (mm)	Cell technology	Module size (mm)	Rated power (Wp)
SOL XXX P F	72	156x156 156.75x156.75	Poly-Si	1950x986	From 270 to 330 with 5 steps
SOL XXX P F	66	156x156 156.75x156.75	Poly-Si	1793x986	From 250 to 300 with 5 steps
SOL XXX P F	60	156x156 156.75x156.75	Poly-Si	1950x986 1634x986	From 210 to 285 with 5 steps
SOL XXX P F	54	156x156 156.75x156.75	Poly-Si	1634x986 1479x986	From 205 to 255 with 5 steps
SOL XXX P F	50	156x156 156.75x156.75	Poly-Si	1634x830	From 180 to 235 with 5 steps
SOL XXX P F	48	156x156 156.75x156.75	Poly-Si	1634x986 1324x986	From 170 to 225 with 5 steps
SOL XXX P F	36	156x156 156.75x156.75	Poly-Si	986x986	From 135 to 170 with 5 steps
SOL XXX P F	20	156x156 156.75x156.75	Poly-Si	1634x396	From 75 to 95 with 5 steps
SOL XXX P F	10	156x156 156.75x156.75	Poly-Si	1634x194	From 35 to 45 with 5 steps
SOL XXX M F	72	156x156 156.75x156.75	Mono-Si	1950x986	From 310 to 370 with 5 steps
SOL XXX M F	66	156x156 156.75x156.75	Mono-Si	1793x986	From 285 to 340 with 5 steps
SOL XXX M F	60	156x156 156.75x156.75	Mono-Si	1950x986 1634x986	From 225 to 310 with 5 steps
SOL XXX M F	54	156x156 156.75x156.75	Mono-Si	1634x986 1479x986	From 230 to 280 with 5 steps
SOL XXX M F	50	156x156 156.75x156.75	Mono-Si	1634x830	From 185 to 260 with 5 steps
SOL XXX M F	48	156x156 156.75x156.75	Mono-Si	1634x986 1324x986	From 180 to 245 with 5 steps
SOL XXX M F	36	156x156 156.75x156.75	Mono-Si	986x986	From 150 to 185 with 5 steps
SOL XXX M F	20	156x156 156.75x156.75	Mono-Si	1634x396	From 75 to 100 with 5 steps
SOL XXX M F	10	156x156 156.75x156.75	Mono-Si	1634x194	From 40 to 50 with 5 steps

Remarks: XXX = rated power. Models SOL XXX P F and SOL XXX M F = frameless modules. Frame thickness = 35 mm, 40 mm, 43 mm or 45 mm. Module size can vary according to the limits of the IEC61215 Retesting Guideline if the minimum distances between module current carrying part and the edge of the module stay the same.

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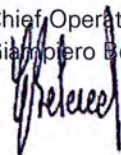
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(Extended models according to IEC61215 "Retesting Guideline")

Model name	Cells number	Cell size (mm)	Cell technology	Module size (mm)	Rated power (Wp)
SOL XXX H	72	125x125	Mono-Si	1580x808	From 165 to 200 with 5 steps
SOL XXX H	48	125x125	Mono-Si	1008x540	From 110 to 135 with 5 steps
SOL XXX H	36	125x125	Mono-Si	754x404	From 85 to 100 with 5 steps
SOL XXX H	24	125x125	Mono-Si	504x270	From 55 to 65 with 5 steps
SOL XXX H	12	125x125	Mono-Si	252x135	From 25 to 35 with 5 steps

Remarks: XXX = rated power. Models SOL XXX P F and SOL XXX M F = frameless modules. Frame thickness = 35 mm, 40 mm, 43 mm or 45 mm. Module size can vary according to the limits of the IEC61215 Retesting Guideline if the minimum distances between module current carrying part and the edge of the module stay the same.

Chief Operating Officer
Gianpiero Belcredi



Laboratory test reports nr.: PVQ01 17113-100115; PS201 17113-100115; PVQ02 17113-100115; PS202 17113-100115; PVQ02 17113-100572; PS202 17113-100572; PVQ01 17113-100572; PS201 17113-100572; PVQ01 17113-100474; PS201 17113-100474; PVQ01 17113-110197; PS201 17113-110197; PVQ01 17113-110202; PS201 17113-110202; PVQ01 17113-110203; PS101 17113-110203; PS201 17113-110203; PVQ01 17113-110463; PS201 17113-110463; PVQ01 17113-110482; PS201 17113-110482; PVQ01 17113-120018; PS101 17113-120018; PS201 17113-120018; AR13 TEST 099; L0001416 rev.00; L0001334 rev.00; L0001539 rev.00; L0001694/A rev.01; L0001764 rev.2 - CB01; L0001764 rev.2 - CB02; L0001764 rev.2 - CB03; 1308.OCI0262/17; L0003221/A rev.00; L0003221/B rev.00.

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