

Certificate number	16200 Rev.1	Replaces	16200 Rev.0
Issued	08/03/2019	First edition	31/07/2017
Report number	IN0000265/A	Expiry date	30/07/2022
Page	1 of 2	Contract number	PKC0002670

Product Certificate Photovoltaic (PV) Panels

License holder:	Solarclarity BV Hogeweyselaan 145, 1382 JK Weesp, The Netherlands
Brand name:	DENIM
Production site ref. nr.:	IN0000266
Model(s):	SC R PXXXXYYY-ZZ; SC R MXXXXYYY-ZZ (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 ISO/IEC 17025 -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 1500 Vdc (application Class A); fire test (IEC 61730-2 / MST 23) was not 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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Chief Operating Officer
Giampaolo Belcredi



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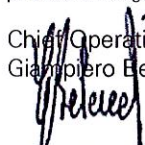
Annex Extended models*

(Extended models according to IEC61215 "Retesting Guideline")

Model name	Cells number	Cell size (mm)	Cell technology	Module size (mm)	Rated power (Wp)
SC R PXXXXYY-72	72	156x156; 156.75x156.75	Poly-Si	1962x992 1956x992	From 280 to 350 with 5 steps
SC R MXXXXYY-72	72	156x156; 156.75x156.75	Mono-Si	1962x992 1956x992	From 295 to 395 with 5 steps
SC R PXXXXYY-60	60	156x156; 156.75x156.75	Poly-Si	1650x992 1640x992 1681x992	From 225 to 290 with 5 steps
SC R MXXXXYY-60	60	156x156; 156.75x156.75	Mono-Si	1650x992 1640x992 1681x992	From 230 to 330 with 5 steps
SC R PXXXXYY-54	54	156x156; 156.75x156.75	Poly-Si	1491x992 1532x992	From 200 to 260 with 5 steps
SC R MXXXXYY-54	54	156x156; 156.75x156.75	Mono-Si	1491x992 1532x992	From 205 to 295 with 5 steps
SC R PXXXXYY-48	48	156x156; 156.75x156.75	Poly-Si	1324x992 1373x992	From 180 to 230 with 5 steps
SC R MXXXXYY-48	48	156x156; 156.75x156.75	Mono-Si	1324x992 1373x992	From 185 to 260 with 5 steps
SC R PXXXXYY-36	36	156x156; 156.75x156.75	Poly-Si	1482x676 1014x992 1055x992	From 135 to 175 with 5 steps
SC R MXXXXYY-36	36	156x156; 156.75x156.75	Mono-Si	1482x676 1014x992 1055x992	From 140 to 195 with 5 steps
SC R MXXXXYY-72	72	125x125	Mono-Si	1580x808	From 190 to 230 with 5 steps
SC R MXXXXYY-36	36	125x125	Mono-Si	1194x542 828x808	From 95 to 115 with 5 steps

Remarks: XXX = rated power. P = Poly-Si solar cells. M = Mono-Si solar cells. YYY = optional suffix, where: the first Y indicates the frame color (Y = B for black frame; Y = W for silver frame); the second Y indicates the backsheet color (Y = B for black backsheet; Y = W for white backsheet; Y = T for no backsheet); the third Y indicates additional characteristics (if applicable); Y = G for glass-glass modules. Without the third Y = no additional characteristics. Maximum system voltage = 1000 Vdc for glass-glass modules; 1500 Vdc for glass-backsheet modules. Frame thickness = 35 or 40 mm. For glass-glass modules: cell size (mm) = 156.75x156.75; module size (mm) = 1681x992 (60 cells); 1532x992 (54 cells); 1373x992 (48 cells); 1055x992 (36 cells). 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
Giampaolo Belcredi



Laboratory test reports nr.: M1.09.FVOL.500/37423Rev1, M1.10.FVOL.0645/41130, PVQ01-25638-130010, PS101-25638-130010, PS201-25638-130010, PVQ02-25638-130010, PS102-25638-130010, PS202-25638-130010, PVQ01 25638-130105, PS101 25638-130105, PS201 25638-130105, PVQ01 25638-130151, PS101 25638-130151, PS201 25638-130151, PVQ01 25638-150011, PS101 25638-150011, PS201 25638-150011, PVQ02 25638-150011, PS102 25638-150011, PS202 25638-150011, L0000112 rev.00, L0000165/A rev.01, L0000165/B1 rev.01, L0000165/B2 rev.01, L0000165/B3 rev.01, L0000165/E rev.01, L0002305/A rev.00, L0002305/B rev.00, L0002621/A rev.01, L0002305/C rev.00, L0002885 rev.00.

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