



CERTIFICATE

Certificate number	15508 Rev.6	Replaces	15508 Rev.5
Issued	23/07/2019	First edition	03/03/2016
Report number	IN0000112	Expiry date	03/07/2023
Page	1 of 3	Contract number	PKC0002588

Product Certificate Photovoltaic (PV) Panels

License holder:	Solvis d.o.o. Cehovska 106 HR-42000 Varazdin, Croatia
Production site(s):	Solvis d.o.o. Cehovska 106 HR-42000 Varazdin, Croatia
Model(s):	Glass-backsheet: SVZZ-XXX (YYY) (1,5kV); SVZZ-XXX E (YYY) (1,5kV); SVZZ(5)-XXX E (YYY) (1,5kV) (see extended models in the Annex)* Glass-glass: SVZZ-XXX (YYY) GG22; SVZZ-XXX E (YYY) GG22 (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.

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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Chief Operating Officer
Giampiero Belcredi





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 Page 2 of 3 Contract number PKC0002588

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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)
SV72-XXX (YYY) (1,5kV)	72	156x156; 156.75x156.75	Poly-Si	1962x992; 1956x992; 1976x1000; 1981x1000	From 280 to 350 with 5 steps
SV72-XXX E (YYY) (1,5kV)	72	156x156; 156.75x156.75	Mono-Si	1962x992; 1956x992; 1976x1000; 1981x1000	From 295 to 395 with 5 steps
SV60-XXX (YYY) (1,5kV)	60	156x156; 156.75x156.75	Poly-Si	1650x992; 1640x992; 1660x1000	From 225 to 290 with 5 steps
SV60-XXX E (YYY) (1,5kV)	60	156x156; 156.75x156.75	Mono-Si	1650x992; 1640x992; 1660x1000	From 230 to 330 with 5 steps
SV54-XXX (YYY) (1,5kV)	54	156x156; 156.75x156.75	Poly-Si	1491x992; 1510x1000	From 200 to 260 with 5 steps
SV54-XXX E (YYY) (1,5kV)	54	156x156; 156.75x156.75	Mono-Si	1491x992; 1510x1000	From 205 to 295 with 5 steps
SV48-XXX (YYY) (1,5kV)	48	156x156; 156.75x156.75	Poly-Si	1324x992; 1336x1000	From 180 to 230 with 5 steps
SV48-XXX E (YYY) (1,5kV)	48	156x156; 156.75x156.75	Mono-Si	1324x992; 1336x1000	From 185 to 260 with 5 steps
SV36-XXX (YYY) (1,5kV)	36	156x156; 156.75x156.75	Poly-Si	1482x676; 1014x992; 1510x686	From 135 to 175 with 5 steps
SV36-XXX E (YYY) (1,5kV)	36	156x156; 156.75x156.75	Mono-Si	1482x676; 1014x992; 1510x686	From 140 to 195 with 5 steps
SV72(5)-XXX E (YYY) (1,5kV)	72	125x125	Mono-Si	1580x808	From 190 to 230 with 5 steps
SV36(5)-XXX E (YYY) (1,5kV)	36	125x125	Mono-Si	1194x542 828x808	From 95 to 115 with 5 steps

Remarks (glass-backsheet module): XXX = rated power. E = mono solar cells. YYY = optional suffix. The YYY suffix can be: F = black frame and white backsheet; B = silver frame and black backsheet; BC = black frame and black backsheet. Without YYY suffix = silver frame and white backsheet. 1,5kV = optional suffix that means maximum system voltage 1500 Vdc. Without 1,5kV suffix = maximum system voltage 1000 Vdc. Frame thickness = 35 or 40 mm.

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 Page 3 of 3 Contract number PKC0002588

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Annex Extended models*

(Extended models according to IECCE "Retesting Guideline")

Model name	Cells number	Cell size (mm)	Cell technology	Module size (mm)	Rated power (Wp)
SV60-XXX (YYY) GG22	60	156.75x156.75	Poly-Si	1681x992; 1701x1000	From 225 to 290 with 5 steps
SV60-XXX E (YYY) GG22	60	156.75x156.75	Mono-Si	1681x992; 1701x1000	From 230 to 330 with 5 steps
SV54-XXX (YYY) GG22	54	156.75x156.75	Poly-Si	1532x992; 1550x1000	From 200 to 260 with 5 steps
SV54-XXX E (YYY) GG22	54	156.75x156.75	Mono-Si	1532x992; 1550x1000	From 205 to 295 with 5 steps
SV48-XXX (YYY) GG22	48	156.75x156.75	Poly-Si	1373x992; 1390x1000	From 180 to 230 with 5 steps
SV48-XXX E (YYY) GG22	48	156.75x156.75	Mono-Si	1373x992; 1390x1000	From 185 to 260 with 5 steps
SV36-XXX (YYY) GG22	36	156.75x156.75	Poly-Si	1055x992; 1067x1000	From 135 to 175 with 5 steps
SV36-XXX E (YYY) GG22	36	156.75x156.75	Mono-Si	1055x992; 1067x1000	From 140 to 195 with 5 steps

Remarks (glass-glass module): XXX = rated power. E = mono solar cells. YYY = optional suffix. The YYY suffix can be: F = black frame. Without YYY suffix = silver frame. Frame thickness = 35 or 40 mm.

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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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