

Certificate number	15443 Rev.3	Replaces	15443 Rev.2
Issued	22/02/2019	First edition	19/01/2017
Report number	PKC0001666	Expiry date	11/11/2023
Page	1 of 3	Contract number	KIP PV 2011

Product Certificate Photovoltaic (PV) Panels

License holder:	Waris S.r.l. Via I° Maggio 1 - 38089 STORO (TN) Italy
Production site(s):	Waris S.r.l. Via I° Maggio 1 - 38089 STORO (TN) Italy
Model(s):	WRSXXX-STYYF; WRSXXX-STYYFL; WRSXXX-MOYYF; WRSXXX-MOYYFL (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) 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.

Chief Operating Officer
Giampiero Belcredi




Kiwa Cermet Italia S.p.A.
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Annex Extended models*

(Extended models according to IECCE "Retesting Guideline")

Model name	Cells number	Cell size (mm)	Cell technology	Rated power (Wp)
WRSXXX-ST72F	72	156x156	Poly-Si	From 270 to 360 with 5 steps
WRSXXX-ST66F	66	156x156	Poly-Si	From 250 to 330 with 5 steps
WRSXXX-ST60F; WRSXXX-ST60FL	60	156x156	Poly-Si	From 225 to 300 with 5 steps
WRSXXX-ST54F; WRSXXX-ST54FL	54	156x156	Poly-Si	From 205 to 270 with 5 steps
WRSXXX-ST50F; WRSXXX-ST50FL	50	156x156	Poly-Si	From 190 to 250 with 5 steps
WRSXXX-ST48F; WRSXXX-ST48FL	48	156x156	Poly-Si	From 180 to 240 with 5 steps
WRSXXX-ST42F; WRSXXX-ST42FL	42	156x156	Poly-Si	From 160 to 210 with 5 steps
WRSXXX-ST36F; WRSXXX-ST36FL	36	156x156	Poly-Si	From 135 to 180 with 5 steps
WRSXXX-ST30F; WRSXXX-ST30FL	30	156x156	Poly-Si	From 120 to 150 with 5 steps
WRSXXX-ST24F; WRSXXX-ST24FL	24	156x156	Poly-Si	From 90 to 120 with 5 steps

Remarks: XXX suffix = rated power; suffix "F" = framed module; suffix "FL" = frameless or with Solrif Mounting System (modules only up to 60 solar cells).

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Annex

Extended models*

(Extended models according to IECCE "Retesting Guideline")

Model name	Cells number	Cell size (mm)	Cell technology	Rated power (Wp)
WRSXXX-MO72F	72	156x156	Mono-Si	From 280 to 395 with 5 steps
WRSXXX-MO66F	66	156x156	Mono-Si	From 255 to 360 with 5 steps
WRSXXX-MO60F; WRSXXX-MO60FL	60	156x156	Mono-Si	From 235 to 330 with 5 steps
WRSXXX-MO54F; WRSXXX-MO54FL	54	156x156	Mono-Si	From 210 to 295 with 5 steps
WRSXXX-MO50F; WRSXXX-MO50FL	50	156x156	Mono-Si	From 195 to 275 with 5 steps
WRSXXX-MO48F; WRSXXX-MO48FL	48	156x156	Mono-Si	From 185 to 260 with 5 steps
WRSXXX-MO42F; WRSXXX-MO42FL	42	156x156	Mono-Si	From 165 to 230 with 5 steps
WRSXXX-MO36F; WRSXXX-MO36FL	36	156x156	Mono-Si	From 140 to 195 with 5 steps
WRSXXX-MO30F; WRSXXX-MO30FL	30	156x156	Mono-Si	From 120 to 165 with 5 steps
WRSXXX-MO24F; WRSXXX-MO24FL	24	156x156	Mono-Si	From 95 to 130 with 5 steps

Remarks: XXX suffix = rated power; suffix "F" = framed module; suffix "FL" = frameless or with Solrif Mounting System (modules only up to 60 solar cells).

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Laboratory test reports nr.: PS101 19959-110240; PS201 19959-110240; PVQ01 19959-110240; PVQ01 19959-110523; PS201 19959-110523; PS101 19959-120384; PS201 19959-120384; PVQ01 19959-120384; PS102 19959-120386 rev.01; PS202 19959-120386 rev.01; PVQ02 19959-120386 rev.01; PS101 19959-150292; PS201 19959-150292; PVQ01 19959-150292; PS201 19959-120387; PVQ01 19959-120387; L0001723/A rev.00; L0001723/B rev.00; L0001909/J rev.00; L0001723/A1 rev.00; L0001967 rev.00; L0001909/G rev.00; L0001909/H2 rev.00; L0001909/K rev.00; L0003245/A rev.00; L0003245/B rev.00.

