

Certificate number	15907 Rev.4	Replaces	15907 Rev.3
Issued	23/01/2020	First edition	23/12/2016
Report number	PKC0001534	Expiry date	17/12/2023
Page	1 of 4	Contract number	KIP PV 2009

Product Certificate Photovoltaic (PV) Panels

License holder: **Sunerg Solar S.r.l.**
Via Donini, 51 - 06012 Cinquemiglia - Città di Castello (PG), Italy

Production site(s): Sunerg Solar S.r.l.
Via Aspromonte Bucchi snc - Città di Castello (PG), Italy

Model(s): XP4yyxxx; XM4yyxxx
(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 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.

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Chief Operating Officer
Giampiero Belcredi




Kiwa Cermet Italia S.p.A.

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Annex

Extended models*

Model name	Cells number	Cell size (mm)	Cell technology	Module size (mm)	Rated power (Wp)
**Series: I35; I+35; IB35; IB+35; IBW35; IBW+35; IWB35; IWB+35; IRW35; IRW+35; IRB35; IRB+35; IGW35; IGW+35; IGB35; IGB+35; I+; IB; IB+; IBW; IBW+; IWB; IWB+; IRW; IRW+; IRB; IRB+; IGW; IGW+; IGB; IGB+; ISR; I+SR; IBSR; IB+SR; IBWSR; IBW+SR; IWBSR; IWB+SR					
XP460xxx	60	156x156	Poly-Si	1645x990; 1665x1002; 1956x992 1691x1017 (Sunrif modules)	From 220 to 285 in steps of 5
XP454xxx	54	156x156	Poly-Si	1645x990; 1485x990 1531x1017 (Sunrif modules)	From 200 to 255 in steps of 5
XP450xxx	50	156x156	Poly-Si	1645x830 1691x857 (Sunrif modules)	From 185 to 235 in steps of 5
XP448xxx	48	156x156	Poly-Si	1328x990; 1965x680 1374x1017 (Sunrif modules)	From 180 to 225 in steps of 5
XP444xxx	44	156x156	Poly-Si	1810x680 1856x707 (Sunrif modules)	From 165 to 205 in steps of 5
XP440xxx	40	156x156	Poly-Si	1645x680 1691x707 (Sunrif modules)	From 150 to 190 in steps of 5
XP436xxx	36	156x156	Poly-Si	1485x680; 1010x990 1531x707 (Sunrif modules)	From 135 to 170 in steps of 5
XP432xxx	32	156x156	Poly-Si	1328x680 1374x707 (Sunrif modules)	From 120 to 150 in steps of 5
XP430xxx	30	156x156	Poly-Si	855x990 901x1017 (Sunrif modules)	From 115 to 140 in steps of 5
XP428xxx	28	156x156	Poly-Si	1170x680 1216x707 (Sunrif modules)	From 105 to 130 in steps of 5
XP424xxx	24	156x156	Poly-Si	1965x355; 1011x680; 696x990 742x1017 (Sunrif modules)	From 90 to 110 in steps of 5
XP422xxx	22	156x156	Poly-Si	1810x355 1856x382 (Sunrif modules)	From 85 to 105 in steps of 5
XP420xxx	20	156x156	Poly-Si	855x680; 1645x355 901x707 (Sunrif modules)	From 75 to 95 in steps of 5
XP418xxx	18	156x156	Poly-Si	1485x355 1531x382 (Sunrif modules)	From 70 to 85 in steps of 5
XP416xxx	16	156x156	Poly-Si	1328x355; 694x680 1374x382 (Sunrif modules)	From 60 to 75 in steps of 5
XP414xxx	14	156x156	Poly-Si	1170x355 1216x382 (Sunrif modules)	From 55 to 65 in steps of 5
XP412xxx	12	156x156	Poly-Si	1010x355; 1965x200 1056x382 (Sunrif modules)	From 45 to 55 in steps of 5
XP410xxx	10	156x156	Poly-Si	855x355; 1645x200 901x382 (Sunrif modules)	From 40 to 45 in steps of 5
XP49xxx	9	156x156	Poly-Si	1485x200 1531x227 (Sunrif modules)	From 35 to 40 in steps of 5
XP48xxx	8	156x156	Poly-Si	694x355; 1328x200 740x382 (Sunrif modules)	From 30 to 35 in steps of 5
XP47xxx	7	156x156	Poly-Si	1170x200	30
XP46xxx	6	156x156	Poly-Si	535x355; 1010x200	25
XP45xxx	5	156x156	Poly-Si	855x200	20
XP44xxx	4	156x156	Poly-Si	376x355; 694x200	15
XP43xxx	3	156x156	Poly-Si	535x200	10
XP42xxx	2	156x156	Poly-Si	376x200	10

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Annex Extended models*

Model name	Cells number	Cell size (mm)	Cell technology	Module size (mm)	Rated power (Wp)
**Series: I35; I+35; IB35; IB+35; IBW35; IBW+35; IWB35; IWB+35; IRW35; IRW+35; IRB35; IRB+35; IGW35; IGW+35; IGB35; IGB+35; I; I+; IB; IB+; IBW; IBW+; IWB; IWB+; IRW; IRW+; IRB; IRB+; IGW; IGW+; IGB; IGB+; ISR; I+SR; IBSR; IB+SR; IBW+SR; IWB+SR					
XM460xxx	60	156.75x156.75	Mono-Si	1645x990; 1665x1002; 1956x992 1691x1017 (Sunrif modules)	From 270 to 330 in steps of 5
XM454xxx	54	156.75x156.75	Mono-Si	1645x990; 1485x990 1531x1017 (Sunrif modules)	From 245 to 295 in steps of 5
XM450xxx	50	156.75x156.75	Mono-Si	1645x830 1691x857 (Sunrif modules)	From 225 to 275 in steps of 5
XM448xxx	48	156.75x156.75	Mono-Si	1328x990; 1965x680 1374x1017 (Sunrif modules)	From 220 to 260 in steps of 5
XM444xxx	44	156.75x156.75	Mono-Si	1810x680 1856x707 (Sunrif modules)	From 200 to 240 in steps of 5
XM440xxx	40	156.75x156.75	Mono-Si	1645x680 1691x707 (Sunrif modules)	From 180 to 220 in steps of 5
XM436xxx	36	156.75x156.75	Mono-Si	1485x680; 1010x990 1531x707 (Sunrif modules)	From 165 to 200 in steps of 5
XM432xxx	32	156.75x156.75	Mono-Si	1328x680 1374x707 (Sunrif modules)	From 145 to 175 in steps of 5
XM430xxx	30	156.75x156.75	Mono-Si	855x990 901x1017 (Sunrif modules)	From 135 to 165 in steps of 5
XM428xxx	28	156.75x156.75	Mono-Si	1170x680 1216x707 (Sunrif modules)	From 130 to 150 in steps of 5
XM424xxx	24	156.75x156.75	Mono-Si	1965x355; 1011x680; 696x990 742x1017 (Sunrif modules)	From 110 to 130 in steps of 5
XM422xxx	22	156.75x156.75	Mono-Si	1810x355 1856x382 (Sunrif modules)	From 100 to 120 in steps of 5
XM420xxx	20	156.75x156.75	Mono-Si	855x680; 1645x355 901x707 (Sunrif modules)	From 90 to 110 in steps of 5
XM418xxx	18	156.75x156.75	Mono-Si	1485x355 1531x382 (Sunrif modules)	From 85 to 100 in steps of 5
XM416xxx	16	156.75x156.75	Mono-Si	1328x355; 694x680 1374x382 (Sunrif modules)	From 75 to 85 in steps of 5
XM414xxx	14	156.75x156.75	Mono-Si	1170x355 1216x382 (Sunrif modules)	From 65 to 75 in steps of 5
XM412xxx	12	156.75x156.75	Mono-Si	1010x355; 1965x200 1056x382 (Sunrif modules)	From 55 to 65 in steps of 5
XM410xxx	10	156.75x156.75	Mono-Si	855x355; 1645x200 901x382 (Sunrif modules)	From 45 to 55 in steps of 5
XM49xxx	9	156.75x156.75	Mono-Si	1485x200 1531x227 (Sunrif modules)	From 40 to 45 in steps of 5
XM48xxx	8	156.75x156.75	Mono-Si	694x355; 1328x200 740x382 (Sunrif modules)	40
XM47xxx	7	156.75x156.75	Mono-Si	1170x200	35
XM46xxx	6	156.75x156.75	Mono-Si	535x355; 1010x200	30
XM45xxx	5	156.75x156.75	Mono-Si	855x200	25
XM44xxx	4	156.75x156.75	Mono-Si	376x355; 694x200	20
XM43xxx	3	156.75x156.75	Mono-Si	535x200	15
XM42xxx	2	156.75x156.75	Mono-Si	376x200	10

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Annex Extended models*

**Series models:

The model name suffix can be:

I35 = silver frame 35 mm, white backsheet	I+35 = silver frame 35 mm, white backsheet, positive power tolerance
IB35 = black frame 35 mm, black backsheet	IB+35 = black frame 35 mm, black backsheet, positive power tolerance
IBW35 = black frame 35 mm, white backsheet	IBW+35 = black frame 35 mm, white backsheet, positive power tolerance
IWB35 = silver frame 35 mm, black backsheet	IWB+35 = silver frame 35 mm, black backsheet, positive power tolerance
IRW35 = red frame 35 mm, white backsheet	IRW+35 = red frame 35 mm, white backsheet, positive power tolerance
IRB35 = red frame 35 mm, black backsheet	IRB+35 = red frame 35 mm, black backsheet, positive power tolerance
IGW35 = green frame 35 mm, white backsheet	IGW+35 = green frame 35 mm, white backsheet, positive power tolerance
IGB35 = green frame 35 mm, black backsheet	IGB+35 = green frame 35 mm, black backsheet, positive power tolerance
I = silver frame 40 mm, white backsheet	I+ = silver frame 40 mm, white backsheet, positive power tolerance
IB = black frame 40 mm, black backsheet	IB+ = black frame 40 mm, black backsheet, positive power tolerance
IBW = black frame 40 mm, white backsheet	IBW+ = black frame 40 mm, white backsheet, positive power tolerance
IWB = silver frame 40 mm, black backsheet	IWB+ = silver frame 40 mm, black backsheet, positive power tolerance
IRW = red frame 40 mm, white backsheet	IRW+ = red frame 40 mm, white backsheet, positive power tolerance
IRB = red frame 40 mm, black backsheet	IRB+ = red frame 40 mm, black backsheet, positive power tolerance
IGW = green frame 40 mm, white backsheet	IGW+ = green frame 40 mm, white backsheet, positive power tolerance
IGB = green frame 40 mm, black backsheet	IGB+ = green frame 40 mm, black backsheet, positive power tolerance
ISR = silver frame, white backsheet (Sunrif modules)	I+SR = silver frame, white backsheet, positive power tolerance (Sunrif modules)
IBSR = black frame, black backsheet (Sunrif modules)	IB+SR = black frame, black backsheet, positive power tolerance (Sunrif modules)
IBWSR = black frame, white backsheet (Sunrif modules)	IBW+SR = black frame, white backsheet, positive power tolerance (Sunrif modules)
IWBSR = silver frame, black backsheet (Sunrif modules)	IWB+SR = silver frame, black backsheet, positive power tolerance (Sunrif modules)

Remarks: frame thickness = 35 mm, 40 mm or 17.30 mm (Sunrif modules).

Chief Operating Officer
Giampiero Belcredi

Laboratory test reports nr.: L0001534/A rev.01; L0001534/B rev.01; L0001534/C rev.00; L0003040 rev.00; L0003165 rev.01; L0003487/A rev.00; L0003487/B rev.00.

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