

Number	KIP0001822A/00	Replaces	-
Issued	02/05/2017	First edition	02/05/2017
Report number	PKC0001822	Expiry date	01/05/2022
Page	1 of 2	Contract number	KIP PV 2018

## Product Certificate Photovoltaic (PV) Panels

The products:

<b>License holder:</b>	<b>Energy XXL GmbH – Spectravolt</b> Raiffeisenstr. 6-8 – 63225 Langen, Germany
<b>Production site ref. nr.:</b>	PKC0001822 001
<b>Models:</b>	SPV-xxx-Myy-S; SPV-xxx-Pyy-S (and extended models, where xxx suffix indicates the rated power and yy indicates the number of solar cells)*

as listed in this certificate and marked with the below given Kiwa Cermet Italia mark for Photovoltaic (PV) Panels, can be considered complying to the 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 / EN 61215:2005  
Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval
- IEC 61730-2:2004+A1:2011 / EN 61730-2:2007+A1:2012  
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), according to "TD Ki – 0409", which includes:

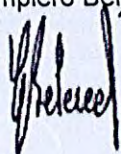
- inspection of the manufacturing quality control and production procedures;
- inspection of the produced panels and confirmation that these are identical to the tested panels;
- periodic verification of the manufacturer test facilities.

*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.*

Chief Operating Officer  
Giampiero Belcredi



Member of the IECCE CB-Scheme



SGQ N° 007A SSI N° 006G  
SGA N° 010D FSM N° 004I  
PRD N° 069B



Certificate

Kiwa Cermet Italia S.p.A.

Società con socio unico, soggetta all'attività di direzione e coordinamento di Kiwa Italia Holding Srl

Via Cadriano, 23  
40057 Granarolo dell'Emilia (BO)

Unità secondaria  
Via Treviso 32/34  
31020 San Vendemiano (TV)

Tel +39. 0438 411755

Fax +39.0438 22428

E-mail: [info@kiwacermet.it](mailto:info@kiwacermet.it)

[www.kiwa.it](http://www.kiwa.it)

[www.kiwacermet.it](http://www.kiwacermet.it)



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 Page 2 of 2 Contract number KIP PV 2018

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### Annex

#### Extended models\*

(Types extended for similarity without need of re-testing according to IEC61215 "Retesting Guideline")

Model name	Cells number	Cell size (mm)	Cell technology	Rated power (Wp)
SPV-xxx-M72-S	72	156x156	Mono-Si	280-340
SPV-xxx-M66-S	66	156x156	Mono-Si	255-310
SPV-xxx-M60-S	60	156x156	Mono-Si	235-280
SPV-xxx-M54-S	54	156x156	Mono-Si	210-255
SPV-xxx-M48-S	48	156x156	Mono-Si	185-225
SPV-xxx-M40-S	40	156x156	Mono-Si	155-185
SPV-xxx-M36-S	36	156x156	Mono-Si	140-170
SPV-xxx-M32-S	32	156x156	Mono-Si	125-150
SPV-xxx-M18-S	18	156x156	Mono-Si	70-85
SPV-xxx-P72-S	72	156x156	Poly-Si	270-330
SPV-xxx-P66-S	66	156x156	Poly-Si	250-300
SPV-xxx-P60-S	60	156x156	Poly-Si	225-275
SPV-xxx-P54-S	54	156x156	Poly-Si	205-245
SPV-xxx-P48-S	48	156x156	Poly-Si	180-220
SPV-xxx-P40-S	40	156x156	Poly-Si	150-180
SPV-xxx-P36-S	36	156x156	Poly-Si	135-160
SPV-xxx-P32-S	32	156x156	Poly-Si	120-145
SPV-xxx-P18-S	18	156x156	Poly-Si	70-80

**Remarks:** xxx = rated power. Frame thickness = 34 mm. Maximum module size 1955x955 mm (72 solar cells PV module).  
 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  
Giampiero Belcredi



Laboratory tests reports nr.: AR 13 TEST 063; AR 14 TEST 040; AR 14 TEST 041; AR 14 TEST 042; AR 16 TEST 093.

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