



Number	15416 Rev.0	Replaces	-
Issued	30/11/2017	First edition	30/11/2017
Report number	PKC0002320	Expiry date	29/11/2022
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## Product Certificate Photovoltaic (PV) Panels

The products:

**License holder:** **Phaesun GmbH**  
Brühlweg 9 – 87700 Memmingen, Germany

**Production site ref. nr.:** PKC0002347

**Models:** PN6PYY-XXX Z; PN6MY-XXX Z; PN5MY-XXX Z  
(and extended models, where XXX = rated power; YY = number of solar cells; Z = E or F. E = framed module, F = frameless module. Model name PN6P60-XXX T = PVT module)\*

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 61730-1:2013 / EN 61730-1/A2:2013  
Photovoltaic (PV) module safety qualification – Requirements for construction
  - IEC 61730-2:2012 / EN 61730-2/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 – Class C) was 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.

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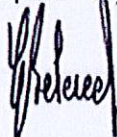
### Annex

#### Extended models\*

(Types extended according to IEC61215 "Retesting Guideline")

Model name	Cells number	Cell size (mm)	Cell technology	Module size (mm)	Rated power (Wp)
PN6P72-XXX Z	72	156x156	Poly-Si	1956x992	From 270 to 330 with 5 steps
PN6P60-XXX Z	60	156x156	Poly-Si	1640x992	From 210 to 285 with 5 steps
PN6P60-XXX T	60	156x156	Poly-Si	1663x998	From 205 to 275 with 5 steps
PN6P54-XXX Z	54	156x156	Poly-Si	1485x992	From 205 to 255 with 5 steps
PN6P50-XXX Z	50	156x156	Poly-Si	1640x836	From 180 to 235 with 5 steps
PN6P48-XXX Z	48	156x156	Poly-Si	1330x992	From 170 to 225 with 5 steps
PN6P36-XXX Z	36	156x156	Poly-Si	992x992	From 135 to 170 with 5 steps
PN6P20-XXX Z	20	156x156	Poly-Si	1640x400	From 75 to 95 with 5 steps
PN6P10-XXX Z	10	156x156	Poly-Si	1640x200	From 35 to 45 with 5 steps
PN6M72-XXX Z	72	156x156	Mono-Si	1956x992	From 310 to 370 with 5 steps
PN6M60-XXX Z	60	156x156	Mono-Si	1640x992	From 225 to 310 with 5 steps
PN6M54-XXX Z	54	156x156	Mono-Si	1485x992	From 230 to 280 with 5 steps
PN6M50-XXX Z	50	156x156	Mono-Si	1640x836	From 185 to 260 with 5 steps
PN6M48-XXX Z	48	156x156	Mono-Si	1330x992	From 180 to 245 with 5 steps
PN6M36-XXX Z	36	156x156	Mono-Si	992x992	From 150 to 185 with 5 steps
PN6M20-XXX Z	20	156x156	Mono-Si	1640x400	From 75 to 100 with 5 steps
PN6M10-XXX Z	10	156x156	Mono-Si	1640x200	From 40 to 50 with 5 steps

Chief Operating Officer  
Giampiero Belcredi



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### Annex

#### Extended models\*

(Types extended according to IEC61215 "Retesting Guideline")

Model name	Cells number	Cell size (mm)	Cell technology	Module size (mm)	Rated power (Wp)
PN5M72-XXX Z	72	125x125	Mono-Si	1580x808	From 165 to 200 with 5 steps
PN5M48-XXX Z	48	125x125	Mono-Si	1008x540	From 110 to 135 with 5 steps
PN5M36-XXX Z	36	125x125	Mono-Si	754x404	From 85 to 100 with 5 steps
PN5M24-XXX Z	24	125x125	Mono-Si	504x270	From 55 to 65 with 5 steps
PN5M12-XXX Z	12	125x125	Mono-Si	252x135	From 25 to 35 with 5 steps

Remarks: XXX = rated power; Z = E or F. E = framed module, F = frameless module. Model name PN6P60-XXX T = PVT (photovoltaic-thermal module). Frame thickness = 35 mm, 40 mm, 43 mm or 45 mm. 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 test reports nr.: PVQ01 17113-100115; PS201 17113-100115; PVQ02 17113-100115; PS202 17113-100115; PVQ02 17113-100572; PS202 17113-100572; PVQ01 17113-100572; PS201 17113-100572; PVQ01 17113-100474; PS201 17113-100474; PVQ01 17113-110197; PS201 17113-110197; PVQ01 17113-110202; PS201 17113-110202; PVQ01 17113-110203; PS101 17113-110203; PS201 17113-110203; PVQ01 17113-110463; PS201 17113-110463; PVQ01 17113-110482; PS201 17113-110482; PVQ01 17113-120018; PS101 17113-120018; PS201 17113-120018; AR13 TEST 099; L0001416 rev.00; L0001334 rev.00; L0001539 rev.00; L0001694/A rev.01; L0001764 rev.2 - CB01; L0001764 rev.2 - CB02; L0001764 rev.2 - CB03; 1308.OCI0262/17.

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