



Photovoltaic Power.

Power-54 KPV PE QCells  
**205 / 210 / 215** Wp

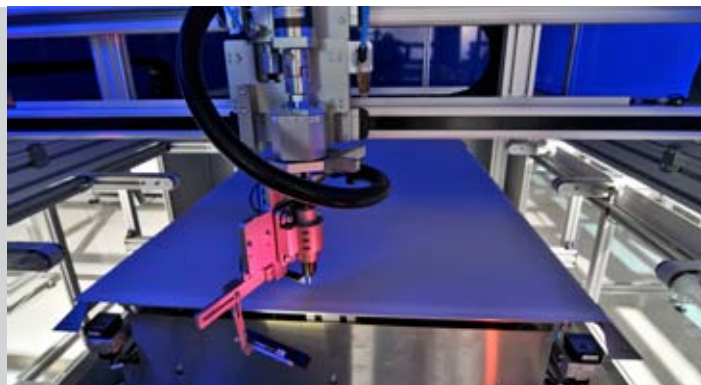
We think PV.

Made in Austria by:

**KIOTO**  
PHOTOVOLTAICS



First class photovoltaic modules from KPV Solar GmbH surpass all the quality standards stipulated in European markets. The highly efficient poly-crystalline solar modules on a 6"-wafer base are manufactured exclusively in Austria using the very latest equipment. Innovative testing ensures exact technical performance data for each individual module. The solar modules with a power of 205 to 215 Wp are delivered with aluminium frames and glass fibre reinforced edge connectors. As standard a Tyco junction box is used. Only top-quality solar modules leave the KIOTO Photovoltaics GmbH production line. These output and profit optimized solar modules are designed mainly for the use in on grid systems.



## KPV PE QCells

### Power Classes:

Type	P <sub>mpp</sub> [Wp]	U <sub>mpp</sub> [V]	I <sub>mpp</sub> [A]	U <sub>oc</sub> [V]	I <sub>sc</sub> [A]	efficiency rate	area per kWp
KPV 205 PE	205 Wp	25,83 V	7,79 A	32,51 V	8,27 A	13,71%	7,26 m <sup>2</sup>
KPV 210 PE	210 Wp	25,98 V	7,93 A	32,57 V	8,44 A	14,05%	7,09 m <sup>2</sup>
KPV 215 PE	215 Wp	26,23 V	8,02 A	32,80 V	8,46 A	14,48%	6,91 m <sup>2</sup>

### Electrical Data:

54 poly-crystalline cells:	156mm x 156mm
Connecting System:	Tyco-Solarlok®, plug in connector 4 mm <sup>2</sup>
Max. system voltage:	1000 V DC
Power tolerance:	(+ 3% / - 0%)*
Temperature coefficients:	P <sub>mpp</sub> = -0,43%/K U <sub>oc</sub> = -118mV/K I <sub>sc</sub> = +5,92mA/K
Standard test conditions (STC):	AM1,5 / 1000W per m <sup>2</sup> / 25°C
Ambient temperature:	+ 85°C to - 40°C
Cable length:	2000mm
Bypass diodes:	3 pcs. Tyco SL1515
Efficiency guarantee:	min. 97% in the first year, afterwards max. 0,70% reduction p.a. up to 25 years
Product guarantee:	12 years

\* Measurement: STC (standard test conditions)

### Technical Data:

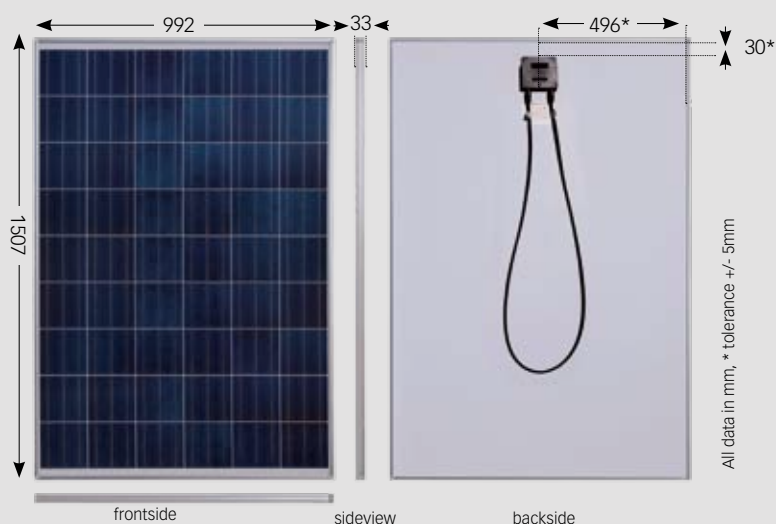
With aluminium frame:	1507 mm x 992 mm x 33 mm (+/-2 mm)
Laminate:	1500 mm x 985 mm x 4,5 mm (junction box height 22,5 mm)
Weight with/without frame:	16,50 kg / 15,50 kg
Glass specification:	Solar glass ESG 3,2mm
Encapsulation material:	Etimex
Backside material:	Isovoltaic
Test certificate:	IEC 61215, Ed. 2 incl. mechanical load test up to 5400 Pa, IEC 61730, IP 65, MCS - Certificate
Extended hail test:	grainsize 25mm, max. velocity of 46m/s (165,6km/h) and grainsize 55mm, max. velocity of 33,9m/s (122,04km/h)
Salt mist corrosion test:	A minimum of 96 hours continuous exposure to a highly concentrated salt mist



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic inspection



- Salt corrosion resistance tested
- Periodic inspection



Certificate No.: MCS PV0025  
Photovoltaic systems

