



Photovoltaic Power.

Power 54 KPV PE NEC
210 / 215 / 220 Wp

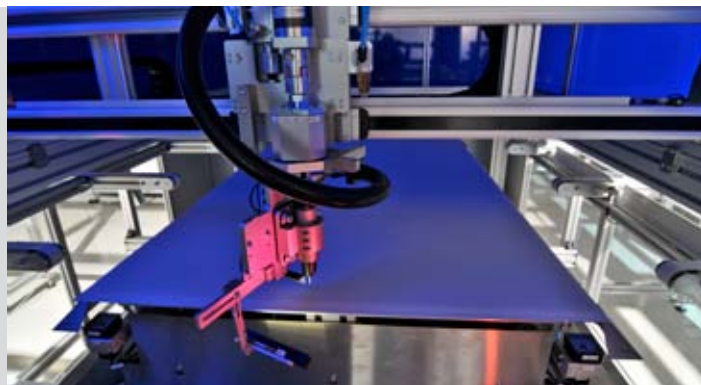
We think PV.

Made in Austria by:

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First class photovoltaic modules from KPV Solar GmbH surpass all the quality standards stipulated in European markets. The highly efficient mono-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 210 to 220 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 NEC

Power Classes:

Type	P _{mpp} (Wp)	U _{mpp} (V)	I _{mpp} (A)	U _{oc} (V)	I _{sc} (A)	efficiency rate	area per kWp
KPV 210 PE	210 Wp	26,47 V	7,96 A	33,26 V	8,59 A	14,05%	7,09 m ²
KPV 215 PE	215 Wp	26,50 V	8,19 A	33,38 V	8,90 A	14,48%	6,91 m ²
KPV 220 PE	220 Wp	26,53 V	8,37 A	33,49 V	9,07 A	14,71%	6,80 m ²

Electrical Data:

54 mono-crystalline cells:	156mm x 156mm
Connecting System:	Tyco-Solarlok®, plug in connector 4 mm ²
Max. system voltage:	1000 V DC
Power tolerance:	(+ 3% / - 0%)*
Temperature coefficients:	P _{mpp} = -0,405%/K / U _{oc} = -102,6mV/K / I _{sc} = +4,1mA/K
Standard test conditions (STC):	AM1,5 / 1000W per m ² / 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
RFID Technology:	Integrated chip with electrical characteristics and module information



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



- Salt corrosion resistance tested
- Periodic inspection

