

KPV

Photovoltaic Power.

Power-60 KPV PE NEC  
**235 / 240** Wp

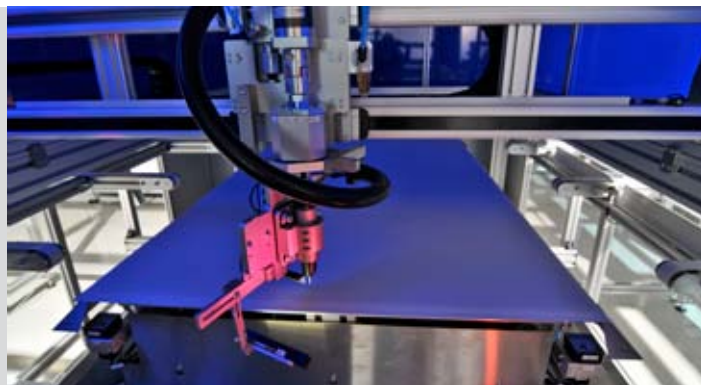
We think PV.

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 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 235 to 240 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 235 PE	235 Wp	29,82 V	7,97 A	37,24 V	8,61 A	14,22%	7,03 m <sup>2</sup>
KPV 240 PE	240 Wp	29,87 V	8,04 A	37,33 V	8,78 A	14,52%	6,89 m <sup>2</sup>

### Electrical Data:

60 mono-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:	$P_{mpp} = -0,405\%/K$ / $U_{oc} = -114mV/K$ / $I_{sc} = +4,1mA/K$
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:

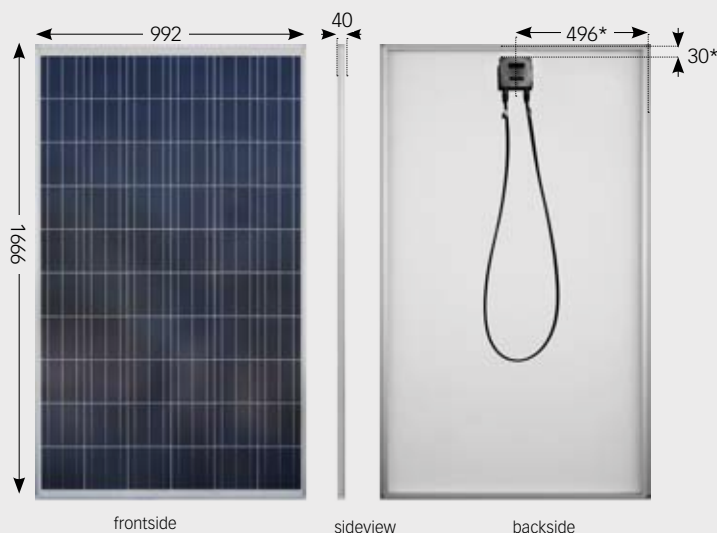
With aluminium frame:	1666 mm x 992 mm x 40 mm (+/- 2 mm)
Laminate:	1659 mm x 985 mm x 4,5 mm (junction box height 22,5 mm)
Weight with/without frame:	19,50 kg / 17,50 kg
Glass specification:	Solar glass ESG 3,2mm
Encapsulation material:	Etimex
Backside material:	Isovoltaic
Test certificate:	IEC 61215, 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



All data in mm, \* tolerance +/- 5mm



Certificate No.: MCS PV0025  
Photovoltaic systems

