#### Solar Module

## Power-60 270/275/280 Wp poly 285/300/305 Wp mono



TOP! The premium class

KIOTO photovoltaic modules surpass all the quality standards stipulated in European markets. The products are manufactured exclusively in Austria using the very latest equipment. Our solar modules are delivered with innovative aluminium frames for flexible mounting options. These output and yield optimized solar modules are designed mainly for the use in on grid systems.

Advantages:

- // 12 years product warranty and25 years linear performance warranty
- // Use of PID-resistent module components
- // Extremely solid (5400 Pa), nevertheless very light module construction (less then 20 kg)
- // Use of high quality components from nameable deliverers
- // Intelligent frame concept for technical safety, flexibility and homogeneous design
- // Optimized weak light behaviour











POWER-60

# KPV PE NEC 270/275/280 Wp poly KPV ME NEC 285/300/305 Wp mono

#### **Module specifications**

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Туре	$Pmpp_{[Wp]}$	$Umpp_{[v]}$	$Impp_{[A]}$	Uoc <sub>[v]</sub>	Isc[A]	efficiency rate	area per kWp
270 poly	270 Wp	32,18 V	8,42 A	38,33 V	9,03 A	16,34%	6,12m <sup>2</sup>
275 poly	275 Wp	32,24 V	8,53 A	38,64 V	9,08 A	16,64%	6,00m <sup>2</sup>
280 poly	280 Wp	32,61 V	8,59 A	38,82 V	9,13 A	16,94%	5,90m <sup>2</sup>
285 mono	285 Wp	31,86 V	8,98 A	38,02 V	9,43 A	17,24%	5,79m <sup>2</sup>
300 mono PERC	300 Wp	32,28 V	9,29 A	38,23 V	9,69 A	18,15%	5,50m <sup>2</sup>
305 mono PERC	305 Wp	32,68 V	9,35 A	38,82 V	9,78 A	18,45%	5,42m <sup>2</sup>

#### **Electrical data**

60 crystalline cells 156mm x 156mm

Connecting System Tyco-PV4, MC4 - compatible plug in connector 4 mm<sup>2</sup>

Max. system voltage 1000V DC

 Power tolerance
 (+ 5 W / - 0 W) Measurement: STC (standard test conditions)

 Temperature coefficients
 poly:
 Pmpp -0,405 %/K
 Uoc -114mV/K
 Isc +4,1mA/K

 mono:
 Pmpp -0,37 %/K
 Uoc -90,7mV/K
 Isc +2,85mA/K

Max. reverse over current 15A

 $\begin{array}{ll} \textbf{Operation temperature} & +85^{\circ}\text{C up to} -40^{\circ}\text{C} \\ \textbf{Cable length} & 2 \times 1000 \text{mm} \\ \textbf{Bypass diodes} & 3 \text{ pcs. Tyco SL1515} \end{array}$ 

Efficiency guarantee min. 97% in the first year, afterwards max. 0,70 % reduction p.a. up to 25 years

Product guarantee 12 years

#### **Technical data**

incl. aluminium frame 1666mm x 992mm x 40mm (+/-2mm)

aminate 1659mm x 985mm x 4,5mm (Dosenhöhe 22,5mm)

Weight with/without frame 19,50kg/17,50kg

Glass specification Solar glass ESG 3,2 mm with high-strength antireflective coating

Encapsulation material STRE

Backside material Isovoltaic, Dunmore

Test certificate IEC 61215, Ed. 2 incl. mechanical load test up to 5400 Pa, IEC 61730; IP 65

Extended hail test Grainsize 25 mm, max. velocity of 46 m/s (165,6 km/h) and Grainsize 55 mm, max. velocity of 33,5 m/s (120,6 km/h)

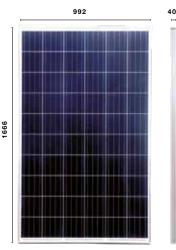
Grainsize 55 mm, max. velocity of 33,5 m/s (120,6 km/h)

Salt mist corrosion test

A minimum of 96 hours continuous exposure to a highly concentrated salt mist

Ammonia resistance 1500h at 750ppm Ammonia concentration

Packaging 24 modules / pal.







Also available with black backsheet and frame



### Intelligent frame concept

- // 40mm frame with plastic
- edge connectors
- / Robust structure and optimized weight
- // No sharp edges





