## **Solar Module**

# Power-60 275/280 Wp poly 300/305/310 Wp mono



TOP! The premium class

KIOTO Power 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.

**NEW**: All Power modules with **Design black** (black frame, black backsheet) are delivered with a special Deflect solar glass. The module is perfectly suitable for regions where less light reflection is necessary e.g. next to airports, roads or multi-family homes.

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 275/280 Wp poly KPV ME NEC 300/305/310 Wp mono

## **Module specifications**

Туре	$Pmpp_{[Wp]}$	$Umpp_{[v]}$	$Impp_{[A]}$	Uoc <sub>[v]</sub>	Isc <sub>[A]</sub>	efficiency rate	area per kWp
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>
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>
310 mono PERC	310 Wp	32,91 V	9,42 A	39,28 V	9,85 A	18,76%	5,33m <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>

1000V DC Max. system voltage

Power tolerance (+ 5 W / - 0 W) Measurement: STC (standard test conditions) Pmpp -0,405%/K Temperature coefficients poly: Uoc -114mV/K Isc +4.1mA/K Pmpp -0,37%/K Uoc -90.7mV/K Isc +2.85mA/K mono:

Max. reverse over current

+85°C up to -40°C Operation temperature Cable length 2 x 1000mm **Bypass diodes** 3 pcs. Tyco SL1515

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

Product quarantee

### **Technical data**

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

Laminate

Weight with/without frame

Glass specification

**Test certificate** Extended hail test

Salt mist corrosion test Ammonia resistance

**Packaging** 

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

19,50kg/17,50kg

Solar glass ESG 3,2 mm with high-strength antireflective coating or solar glass Interfloat Deflect 3,2 mm

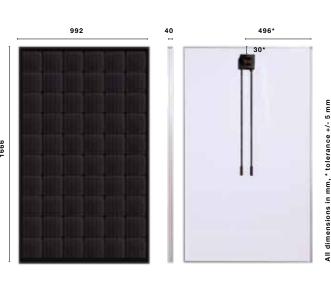
IEC 61215, Ed. 2 incl. mechanical load test up to 5400 Pa, IEC 61730; IP 65

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)

A minimum of 96 hours continuous exposure to a highly concentrated salt mist 1500h at 750ppm Ammonia concentration

24 modules / pal.





#### **Design Black with special DEFLECT** glass:

// Light transmission 94,9% // Light reflection front side <20.000cd/m<sup>2</sup>

// less light reflection

