

Solar Module

Power-60

275/280 Wp poly

300/305/310 Wp mono

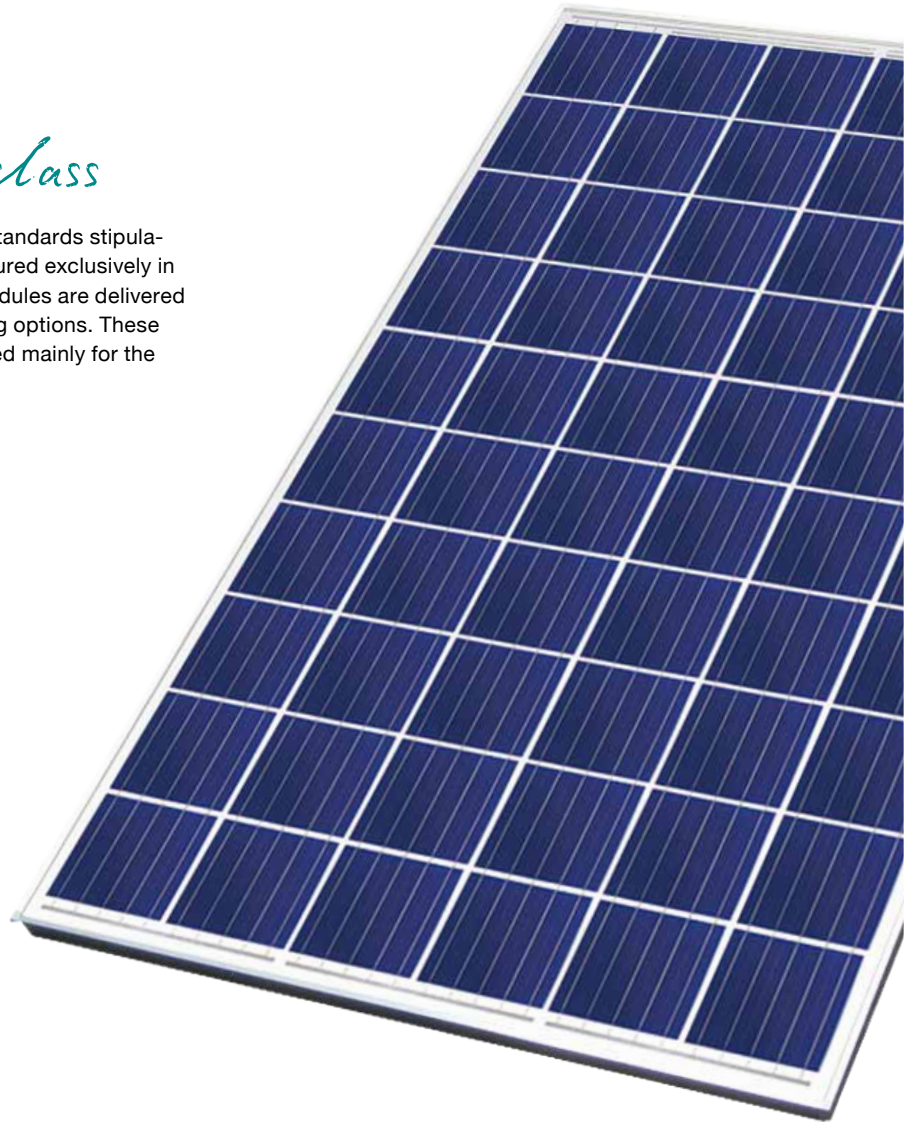
KIOTO
SOLAR

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 and
25 years linear performance warranty
- // Use of PID-resistant module components
- // Extremely solid (5400 Pa), nevertheless
very light module construction (less than 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

Type	P _{mp} [W _p]	U _{mp} [V]	I _{mp} [A]	U _{oc} [V]	I _{sc} [A]	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 ²
280 poly	280 Wp	32,61 V	8,59 A	38,82 V	9,13 A	16,94%	5,90m ²
300 mono PERC	300 Wp	32,28 V	9,29 A	38,23 V	9,69 A	18,15%	5,50m ²
305 mono PERC	305 Wp	32,68 V	9,35 A	38,82 V	9,78 A	18,45%	5,42m ²
310 mono PERC	310 Wp	32,91 V	9,42 A	39,28 V	9,85 A	18,76%	5,33m ²

Electrical data

60 crystalline cells	156mm x 156mm
Connecting System	Tyco-PV4, MC4 - compatible plug in connector 4 mm ²
Max. system voltage	1000V DC
Power tolerance	(+ 5 W / - 0 W) Measurement: STC (standard test conditions)
Temperature coefficients	poly: P _{mp} -0,405%/K U _{oc} -114mV/K I _{sc} +4,1mA/K mono: P _{mp} -0,37%/K U _{oc} -90,7mV/K I _{sc} +2,85mA/K
Max. reverse over current	15A
Operation temperature	+85°C up to -40°C
Cable length	2 x 1000mm
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

Technical data

incl. aluminium frame	1666mm x 992mm x 40mm (+/-2mm)
Laminate	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	Vistasolar
Backside material	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)
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.

