

Solar Module

Power-60

270/275 Wp poly

285/300 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 270/275 Wp poly

KPV ME NEC 285/300 Wp mono

Module specifications

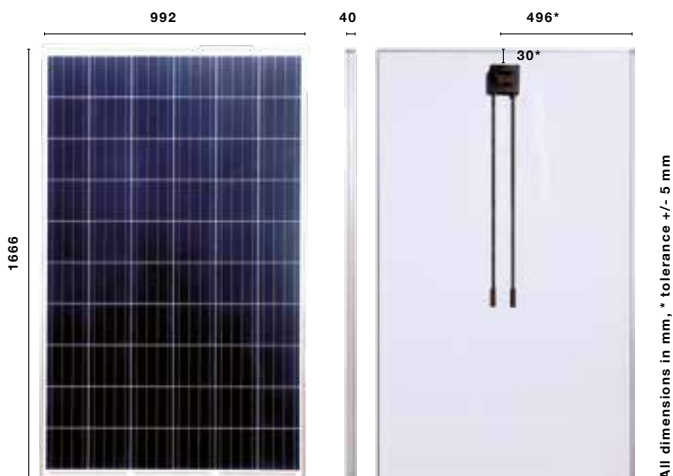
Type	P _{mpp} [W _p]	U _{mpp} [V]	I _{mpp} [A]	U _{oc} [V]	I _{sc} [A]	efficiency rate	area per kWp
270 poly	270Wp	32,18V	8,42A	38,33V	9,03A	16,34%	6,12m ²
275 poly	275Wp	32,24V	8,53A	38,64V	9,08A	16,64%	6,00m ²
285 mono	285Wp	31,86V	8,98A	38,02V	9,43A	17,24%	5,79m ²
300 mono PERC	300Wp	32,28V	9,29A	38,23V	9,69A	18,15%	5,50m 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 _{mpp} -0,405%/K U _{oc} -114mV/K I _{sc} +4,1mA/K mono: P _{mpp} -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	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)
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.



BlackBlack
Also available with black backsheet and frame



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



The customer carries the sole responsibility the the goods ordered and delivered are suitable for his purposes. Applicational advices, whether verbal, in writing or by making tests are conducted to the best of KIOTO Photovoltaics GmbH's knowledge, whether verbal, in writing or by way of trials or otherwise, is provided to the best of our knowledge, but without any guarantee or liability. Special technical constructions may be subject to official approval. The constructor or the client is responsible for obtaining such official approval. The customer must bear any costs caused by changes or alterations because of special technical constructions, especially for tests or calculations. A project-related, static pre-dimensioning as well as the correct use of the glasses was not carried out or tested by us.
Measurement tolerance ±3%