

Solar Module

Pure-60/72

275/325/330 Wp poly

300/360 Wp mono

KIOTO
SOLAR

EFFICIENT! The project module

The Pure photovoltaic module series from KIOTO is a cost – optimized alternative especially for project applications. Only selected components are used which strictly adhere to ISO and IEC standards. All electrical and mechanical tolerances are verified over the same innovative test procedures and therefore identically to the standard product line. The Pure module is available with 265 - 345 Wp and comes with plate – finished aluminium frame and solid edge connectors.

Advantages:

- // Exact current sorting
- // Use of PID-resistant module components
- // Product warranty of 10 years and a linear performance warranty for 25 years
- // Use of high quality components from nameable deliverers
- // Intelligent frame concept for technical safety and homogeneous design
- // Optimized weak light behaviour



PURE-60/72

KPV PE NEC 275/325/330 Wp poly

KPV ME NEC 300/360 Wp mono

Module specification

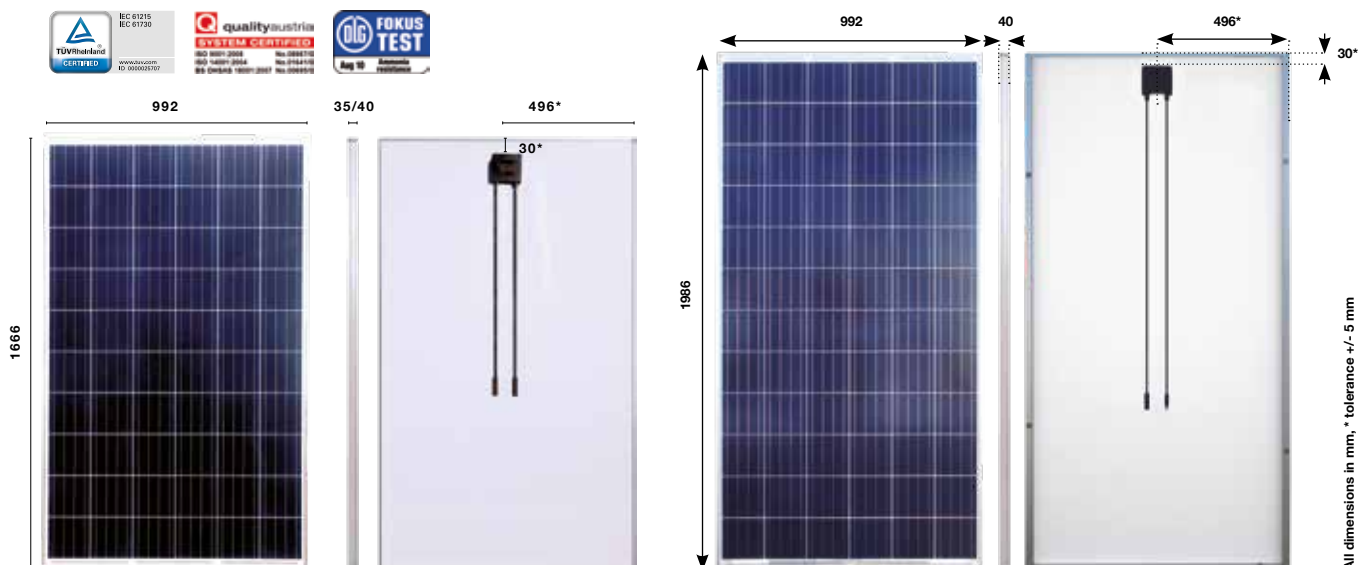
Type	P _{mp} [W _p]	U _{mp} [V]	I _{mp} [A]	U _{oc} [V]	I _{sc} [A]	efficiency rate	area per kWp
275 poly	275 Wp	32,24 V	8,53 A	38,64 V	9,08 A	16,64 %	6,00 m ²
300 mono PERC	300 Wp	32,28 V	9,29 A	38,23 V	9,69 A	18,15 %	5,50 m ²
325 poly	325 Wp	38,74 V	8,39 A	46,23 V	8,39 A	16,47 %	6,08 m ²
330 poly	330 Wp	38,95 V	8,48 A	46,29 V	8,94 A	16,69 %	5,98 m ²
360 mono	360 Wp	39,03 V	9,24 A	46,87 V	9,62 A	18,27 %	5,47 m ²

Electrical data

60/72 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 / - 5 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	10 years

Technical data

With aluminium frame (not anodised)	1666 mm x 992 mm x 35/40 (+/- 2 mm) / XL: 1986 mm x 992 mm x 40 (+/- 2 mm)
Weight	35 mm: 18,50 kg / 40 mm: 19,50 / XL 40 mm: 22 kg
Glass specification	Solarglass ESG 3,2 mm with high-strength antireflective coating
Encapsulation material	STRE
Backside material	Isovoltaic
Test certificate	IEC 61215, IEC 61730; IP 65, MCS-Certificate
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)
Packaging	35 mm: 28 modules / pal. / 40 mm: 24 modules / pal. / XL: 20 modules / pal.



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 of special approval. The constructor or the client is responsible for obtaining such of special 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%