

Solar Module

KIOTO
SOLAR

PROJECT-60

275/280 Wp poly

305/310 Wp mono

EFFICIENT! The project module

The Project photovoltaic module series from KIOTO is a cost – optimized alternative especially for huge 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 Project module is available up to 310 Wp and comes with aluminium frame and bevel cut edges.

Advantages:

- // 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
- // Stable frame concept for technical safety and homogeneous design
- // Optimized weak light behaviour



PROJECT-60

KPV PE NEC 275/280 Wp poly

KPV ME NEC 305/310 Wp mono

Module specification

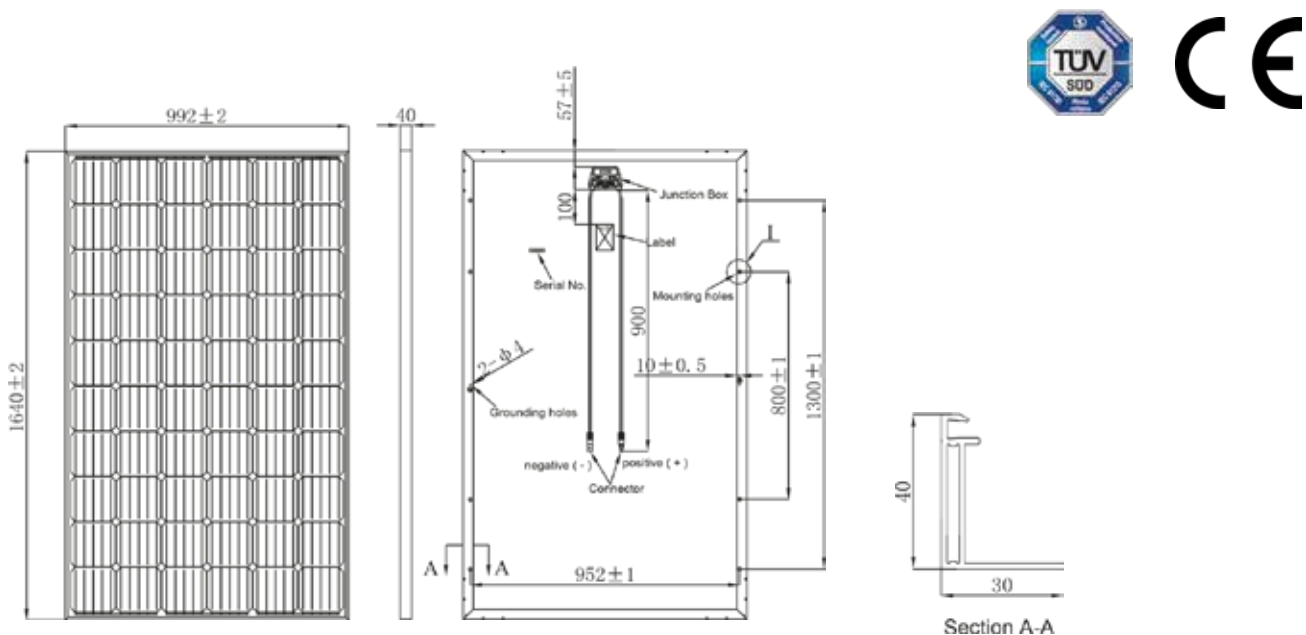
Type	P _{mpp} [Wp]	U _{mpp} [V]	I _{mpp} [A]	U _{oc} [V]	I _{sc} [A]	efficiency rate	area per kWp
275 poly	275 Wp	31,40 V	8,76 A	38,55 V	9,23 A	16,90%	5,91 m ²
280 poly	280 Wp	31,75 V	8,82 A	38,91 V	9,30 A	17,21%	5,80 m ²
305 mono	305 Wp	32,91 V	9,27 A	40,15 V	9,79 A	18,75%	5,33 m ²
310 mono	310 Wp	33,25 V	9,33 A	40,63 V	9,85 A	19,05%	5,24 m ²

Electrical data

60 crystalline cells	156mm x 156mm
Connecting System	MC4 - compatible plug in connector 4 mm ²
Max. system voltage	1000V DC
Power tolerance	(+ 5W / - 0 W) Measurement: STC (standard test conditions)
Temperature coefficients	poly: P _{mpp} -0,394%/K U _{oc} -0,307%/K I _{sc} +0,04%/K mono: P _{mpp} -0,393%/K U _{oc} -0,31%/K I _{sc} +0,041%/K
Max. reverse over current	15A
Operation temperature	+85°C up to -40°C
Cable length	2 x 900mm
Bypass diodes	3 pcs.
Efficiency guarantee	min. 97 % in the first year, afterwards linear reduction up to 25 years
Product guarantee	10 years

Technical data

With aluminium frame	1640 mm x 992 mm x 40 (+/- 3 mm)
Weight	18,50 kg
Glass specification	Reinforced 3,2mm solar glass with high transmittance
Encapsulation material	EVA encapsulant
Backside material	Multi-layer anti aging film
Test certificate	IEC 61215, IEC 61730 by TÜV Süd
Extended certificates	High salt mist and ammonium resistance, certified by TÜV Nord
Packaging	26 modules/pal., 728 modules/truck



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

This datasheet is not legally binding. Actual specifications and/or product features may vary. KIOTO Photovoltaics GmbH reserves the right to make changes to specifications without notice. Caution: Read the safety and installation instructions before using the product. The currently valid warranty/guarantee declaration and the general delivery terms and conditions of KIOTO Photovoltaics GmbH are part of this datasheet. Further details can be found on our website. 01/19