

Solar Module

KIOTO
SOLAR

Power Deflect

300/305/310 Wp mono

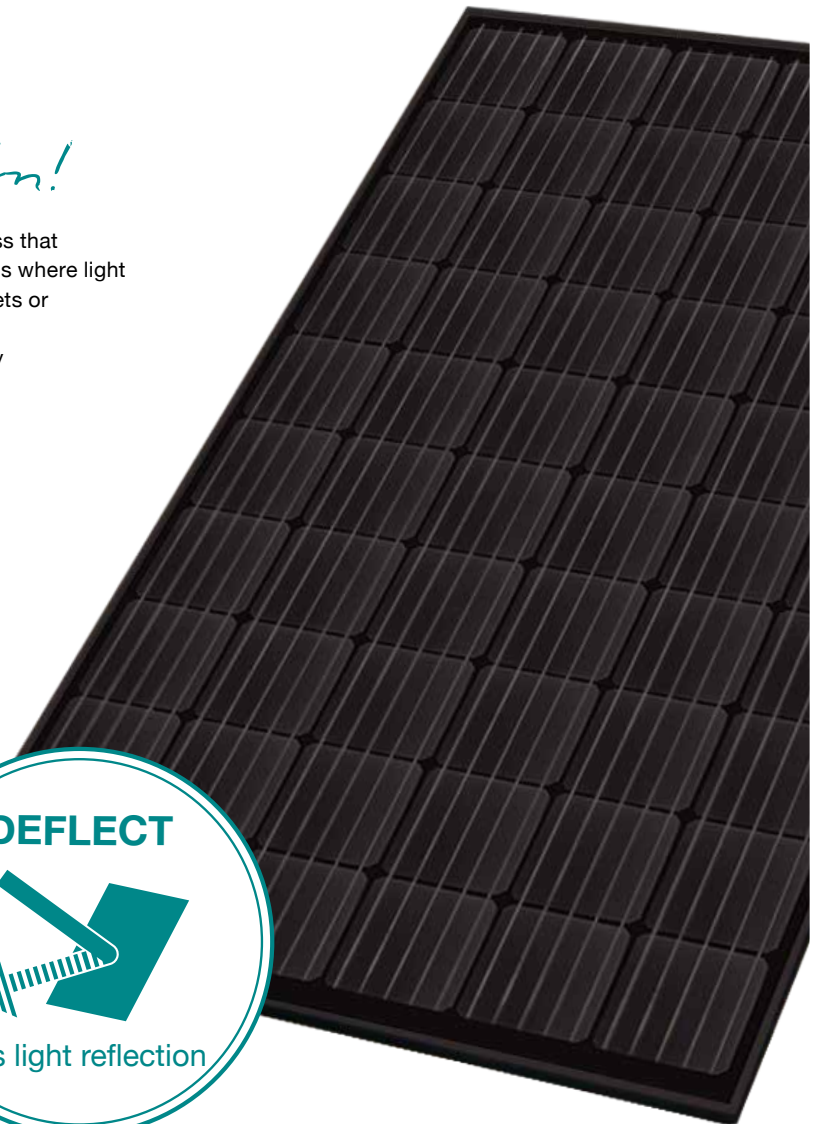
DEFLECT! Less reflection!

The Power Deflect module is equipped with a special solar glass that reflects less light. So the module is perfectly suitable for regions where light reflections are extremely disturbing, e.g. besides airports, streets or residential neighbourhoods.

The module complies even the EASA (European Aviation Safety Agency) specifications, which are very restrictive.

Advantages:

- // Complies with EASA (European Aviation Safety Agency) specifications
- // Less light reflection
- // 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



POWER DEFLECT

KPV ME NEC 300/305/310 Wp mono deflect

Module specifications

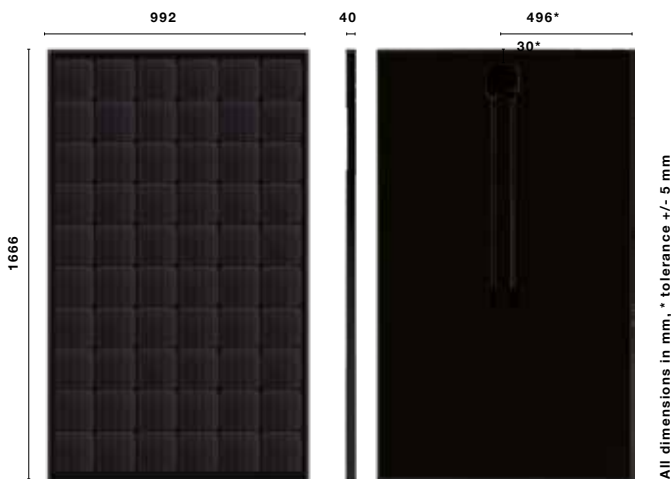
Type	Pmpp _[Wp]	Ump _[V]	Imp _[A]	Uoc _[V]	Isc _[A]	efficiency rate	area per kWp
300 mono PERC	300Wp	32,28V	9,29A	38,23V	9,69A	18,15%	5,50m ²
305 mono PERC	305 Wp	32,68 V	9,35 A	38,82 V	9,78 A	18,45%	5,42m ²
310 mono PERC	310 Wp	32,91 V	9,42 A	39,28 V	9,85 A	18,76%	5,33m ²

Electrical data

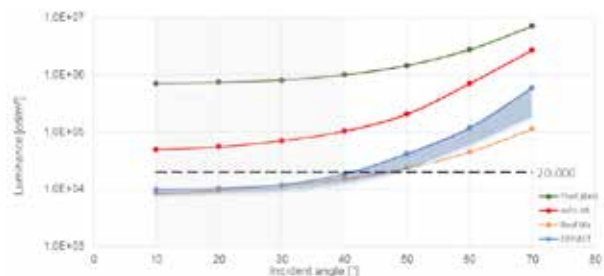
60 crystalline cells	156mm x 156mm
Connecting System	Tyco-PV4, MC4 - compatible plug in connector 4 mm ²
Max. system voltage	1000V DC
Power tolerance	(+ 5 W / - 0 W) Measurement: STC (standard test conditions)
Temperature coefficients	mono: Pmpp -0,37%/K Uoc -90,7mV/K Isc +2,85mA/K
Max. reverse over 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)
Weight with frame	19,50kg
Glass specification	Solar glass Interfloat Deflect 3,2mm
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.



Deflect solar glass
 // Light transmission 94,9%
 // Light reflection front side <20,000cd/m²



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 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%