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**Solar Panel Guide
Specification Data Sheet**

**Sonnenkraft Solar Systems GmbH
Power-60
POWER Black 325 mono**

Also available on the web at
EnergyPal.com/sonnenkraft-solar-systems-gmbh-solar-panels/power-black-325-mono

Solarmodul

Power-60

325/330 Wp mono silver

320/325 Wp mono black

KIOTO
SOLAR

Eine Marke von

SONNENKRAFT

TOP! The premium-class

KIOTO Power 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.

Less light reflection: All Power modules are delivered with a special Deflect solar glass. The module is perfectly suitable for regions where less light reflection is necessary e.g. next to airports, roads or multi-family homes.

Advantages:

- // 12 years product warranty and
25 years linear performance warranty
- // 5 busbar cell technology
- // Use of PID-resistant module components
- // Extremely solid (5400 Pa), nevertheless
very light module construction
- // Intelligent frame concept for technical
safety, flexibility and homogeneous design



Photovoltaics >>Made in Austria <<



POWER-60

KPV ME NEC 325/330 Wp mono silver KPV ME NEC 320/325 Wp mono black

Module specifications

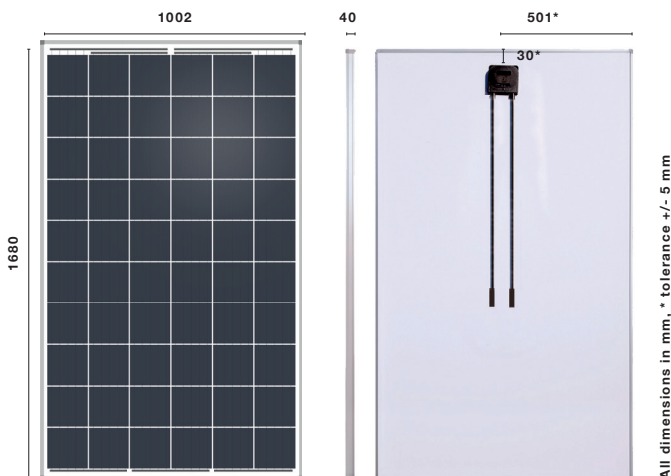
POWER Silver	P _{mp} [Wp]	U _{mp} [V]	I _{mp} [A]	U _{oc} [V]	I _{sc} [A]	efficiency rate	area per kWp
325 mono	325 Wp	33,81 V	9,65 A	40,12 V	10,09 A	19,30%	5,17m ²
330 mono	330 Wp	33,97 V	9,77 A	40,46 V	10,17 A	19,60%	5,10m ²
POWER Black							
320 mono	320 Wp	33,57 V	9,57 A	39,87 V	10,04 A	19,01%	5,26m ²
325 mono	325 Wp	33,81 V	9,65 A	40,12 V	10,09 A	19,30%	5,17m ²

Electrical data

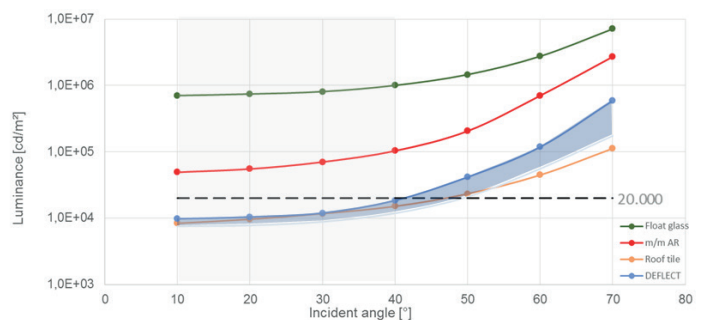
60 crystalline cells	158,75mm x 158,75mm
Connecting System	Tyco-PV4 4mm ²
Max. system voltage	1000V DC
Power tolerance	(+5W/-0W) Measurement: STC (standard test conditions)
Temperature coefficients	P _{mp} -0,37 %/K U _{oc} -90,7 mV/K I _{sc} +2,85 mA/K
Max. reverse over current	15A
Operation temperature	+85°C up to -40°C
Cable length	2 x 1000mm
Bypass diodes	3pcs. 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

Dimension	1680mm x 1002mm x 40mm (+/-2mm)
Weight	19,50kg
Glass specification	Solar glass Interfloat Deflect 3,2mm
Test certificate	IEC 61215, Ed. 2 incl. mechanical load test up to 5400Pa, 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., 720 modules/truck



Special DEFLECT glass:
 // Light transmission 94,9%
 // Light reflection front side
 <20,000cd/m²
 // less light reflection



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%