

PD series solar panels

autarco

The Autarco PD series solar panels are based on high efficiency polycrystalline PERC cells with five bus-bars (5BB) in a 6x12 layout. The resulting rated power of up to 345Wp and Autarco's extra focus on consistency and quality make this the panel of choice for professional EPC's worldwide.

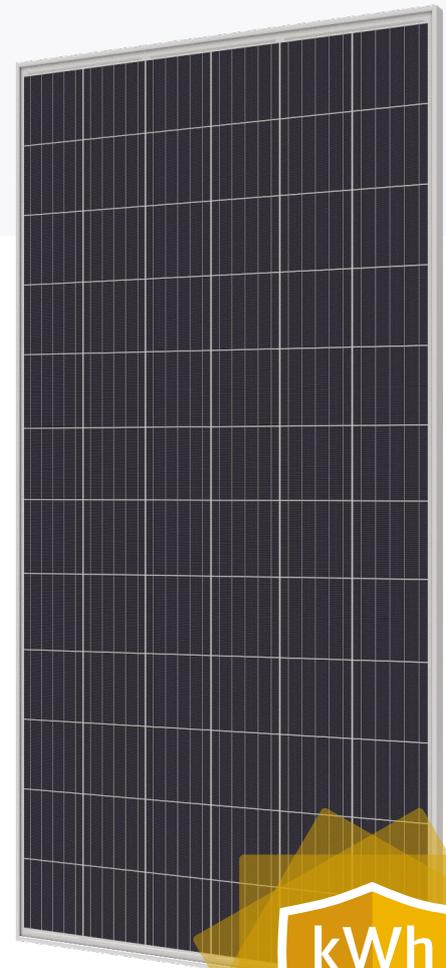
25 Insured linear 25-year performance guarantee (81.4%)

10 10-year product warranty

 Salt and ammonia resistant

 Free of potential induced degradation (PID)

XL Extra large



Quality certificates

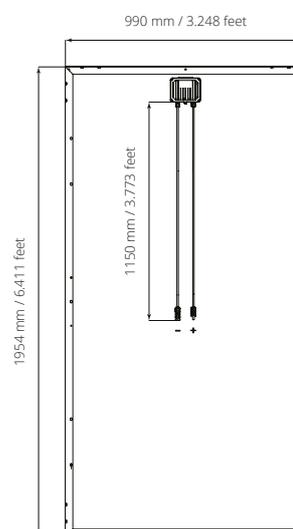
- IEC 61215, IEC61730, VDE, CE, MCS, CEC AU
- ISO 9001, 14001, 18001 - CE
- Solarif, PV-Cycle



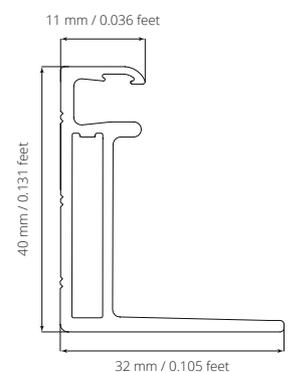
Cells and construction

Cells	72 cells (157 * 157mm) in a 6 * 12 matrix connected in series
Junction box	IP67 box with 1150mm 4mm ² cable fitted with MC4 connectors
Diodes	Three by-pass diodes
Construction	Front: 3.2mm glass Back: polyester (white or black) Encapsulant: EVA (white or black)
Frame	Anodized aluminium 6063-T5 (silver or black)
Weight	21.8 kg
Dimensions	1954 * 990 * 40 mm

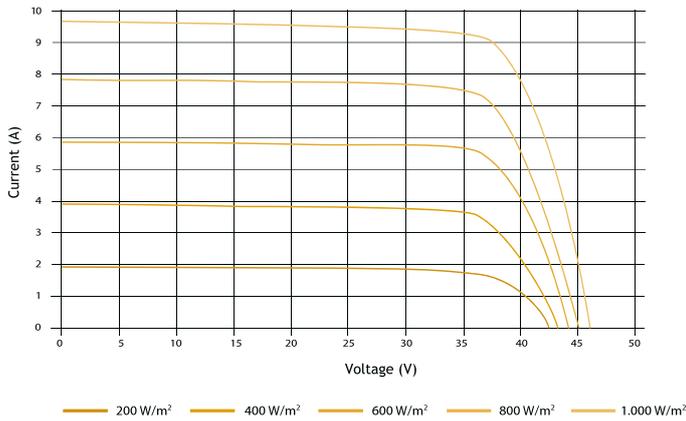
Panel



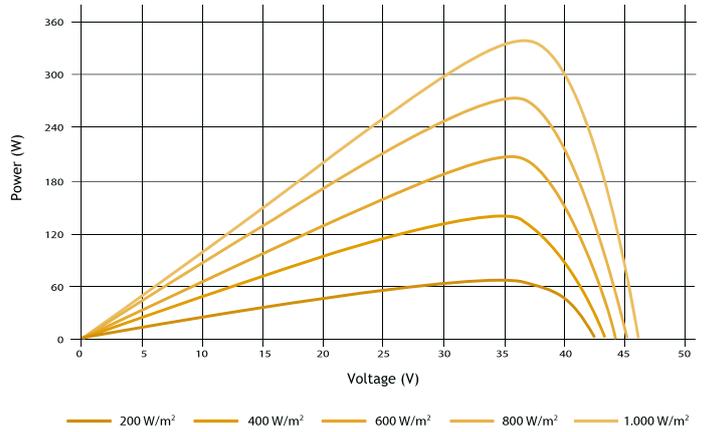
Frame cross section



IV curve



Power curve



Electrical characteristics

		PD330	PD335	PD340	PD345
Nominal power output (Wp)	(Pmax)	330	335	340	345
Power output tolerance (W)	(ΔPmax)	0/+3	0/+3	0/+3	0/+3
Open circuit voltage (V)	(Voc)	45.86	45.98	46.16	45.37
Short circuit current (A)	(Isc)	9.52	9.57	9.62	9.67
Max. power voltage (V)	(Vmp)	37.15	37.26	37.33	37.38
Max. power current (A)	(Imp)	8.89	9.00	9.11	9.23
Module efficiency (%)	(η)	17.10	17.30	17.60	17.80

Electrical values at standard test conditions (STC): irradiation 1000W/m², air density AM1.5 and cell temperature 25 °C
 Max string voltage: 1000V, max series fuse: 20A

Temperature characteristics

Isc (α)	+0.050 % / °C
Voc (β)	-0.311 % / °C
Pmax (γ)	-0.408 % / °C
Nominal cell temperature	46 °C (+/- 2 °C)

Other characteristics

Operating temperature range	-40 °C tot 85 °C
Max. load (front / wind)	6000 / 3600 Pa
Ammonia and salt resistance	IEC 62716, 61701
Max. hailstone impact	45mm @ 30.7m/s
Standard packaging	27 pcs
Quantity per 40'HQ container	648 pcs

The specifications contained in this datasheet may deviate slightly from our actual products due to on-going product improvement and are subject to change at any time without prior notice.

