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# EnergyPal

## Solar Panel Guide Specification Data Sheet

**Autarco BV**  
**PD Series**  
**PD340**

Also available on the web at  
[EnergyPal.com/autarco-bv-solar-panels/pd340](http://EnergyPal.com/autarco-bv-solar-panels/pd340)


# 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.

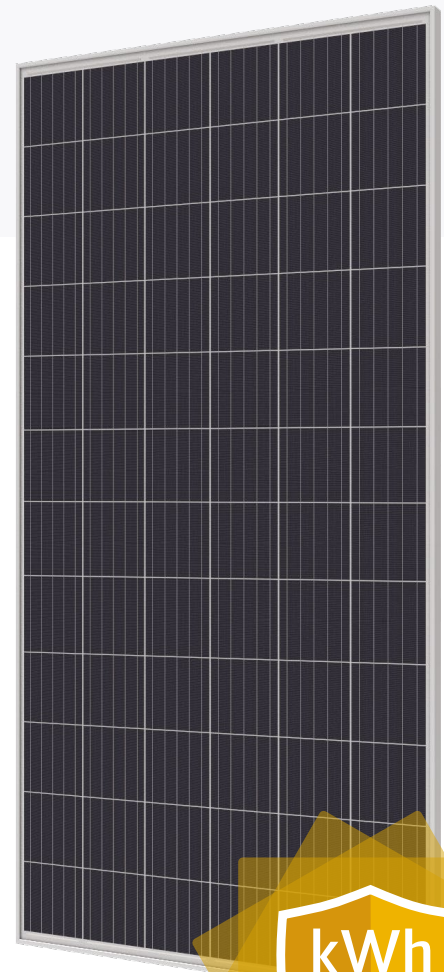
**25** Insured linear 25-year performance guarantee (81.4%)

**10** 10-year product warranty

 Salt and ammonia resistant

 Free of potential induced degradation (PID)

**XL** Extra large



## Quality certificates

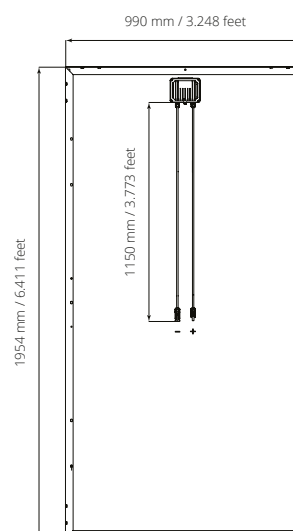
- IEC 61215, IEC61730, VDE, CE, MCS, CEC AU
- ISO 9001, 14001, 18001 - CE
- Solarif, PV-Cycle



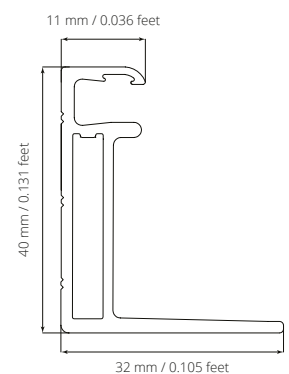
## Cells and construction

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

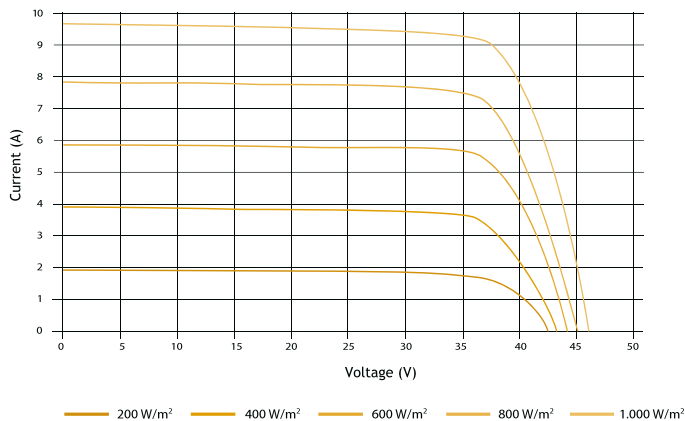
Panel



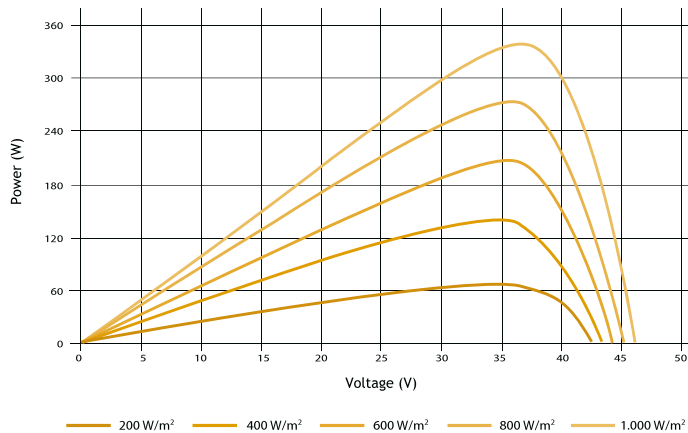
Frame cross section



## IV curve



## Power curve



## Electrical characteristics

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

Electrical values at standard test conditions (STC): irradiation 1000W/m<sup>2</sup>, air density AM1.5 and cell temperature 25 °C  
 Max string voltage: 1000V, max series fuse: 20A

## Temperature characteristics

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

## Other characteristics

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

