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Solar Panel Guide Specification Data Sheet




**Autarco BV
PC Series
S1.PC280**

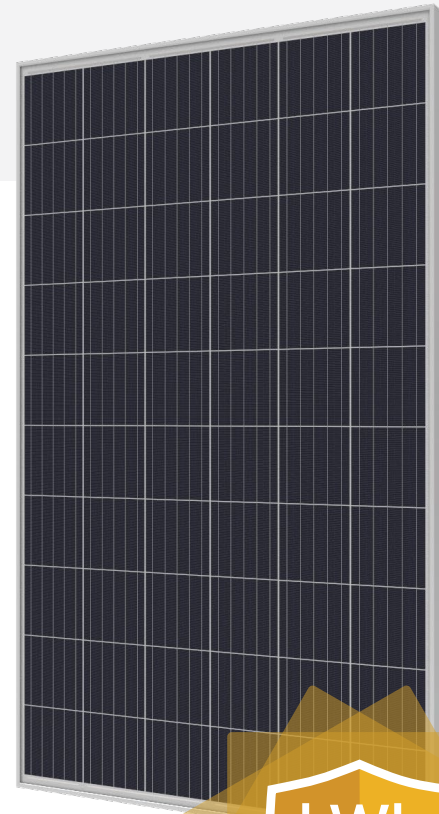
Also available on the web at
EnergyPal.com/autarco-bv-solar-panels/s1-pc280

PC series solar panels

autarco

The Autarco PC series solar panels are based on high efficiency polycrystalline PERC cells with five bus-bars (5BB) in a 6 x 10 layout. The resulting rated power of up to 290Wp 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 up to 81.4%
- 10** 10-year product warranty
-  Salt and ammonia resistant
-  Free of potential induced degradation (PID)
-  Increased durability (6000pa mechanical load)



Quality certificates

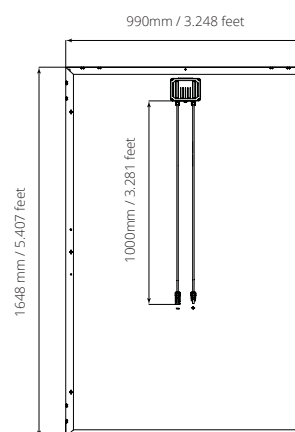
- ▣ IEC 61215, IEC61730, VDE, CE, MCS, CEC AU
- ▣ ISO 9001, 14001, 18001 - CE
- ▣ Solarif, PV-Cycle



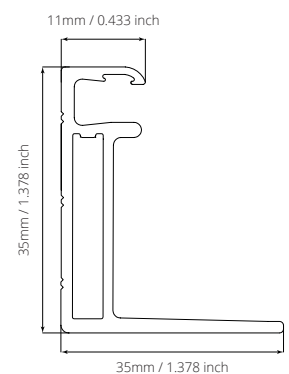
Cells and construction

Cells	60 cells (157 x 157mm) in a 6 x 10 matrix connected in series
Junction box	IP67 box with 1000mm 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	18.3kg
Dimensions	1648 x 990 x 35mm

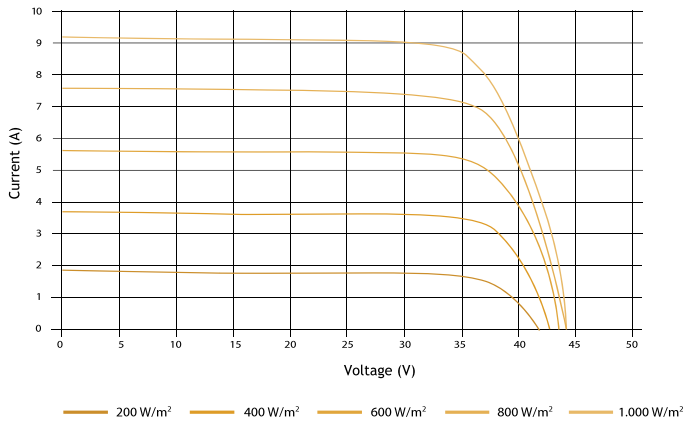
Panel



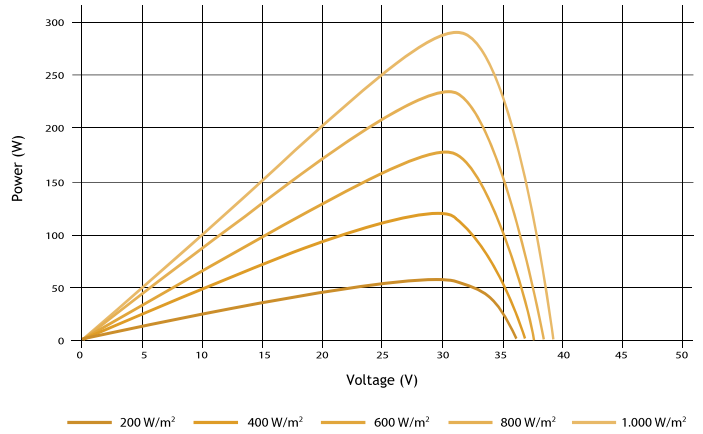
Frame cross section



IV curve



Power curve



Electrical characteristics

		PC270	PC275	PC280	PC285	PC290
Nominal power output (Wp)	(Pmax)	270	275	280	285	290
Power output tolerance (W)	(ΔP_{max})	0/+5	0/+5	0/+5	0/+5	0/+5
Open circuit voltage (V)	(Voc)	38.39	38.45	38.69	38.94	39.18
Short circuit current (A)	(Isc)	9.15	9.52	9.59	9.68	9.75
Max. power voltage (V)	(Vmp)	31.04	31.12	31.20	31.38	31.55
Max. power current (A)	(Imp)	8.73	8.85	8.99	9.09	9.20
Module efficiency (%)	(η)	16.60	16.90	17.20	17.50	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 or 1500V, max series fuse: 15A

Temperature characteristics

Isc (α)	+0.049% / °C
Voc (β)	-0.310% / °C
Pmax (γ)	-0.407% / °C
Nominal cell temperature	43°C (+/- 2°C)

Other characteristics

Operating temperature range	-40°C to 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	31 pcs
Quantity per 20' / 40'HQ container	434 / 868 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.

