

MD series solar panels

autarco

The Autarco MD series solar panels are based on high efficiency monocrystalline PERC cells with five bus-bars (5BB) in a 6x12 layout. The resulting rated power of up to 370Wp and Autarco's extra focus on consistent cell color, make this a module of choice for the residential market where roof space is limited and an aesthetic finish is desired.

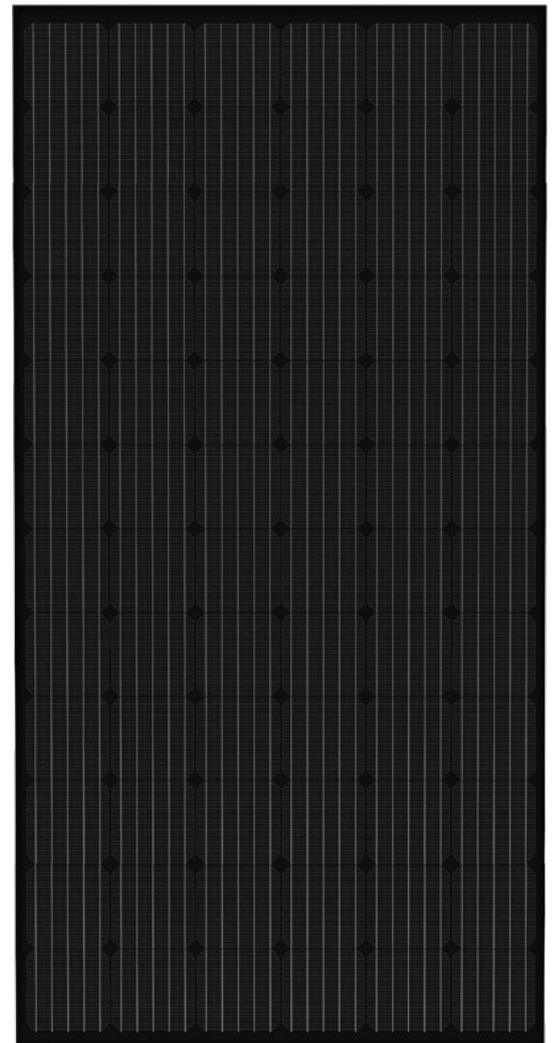
25 Insured linear 25-year performance guarantee up to 80.2%

10 10-year product warranty

 Salt and ammonia resistant

 Free of potential induced degradation (PID)

XL Extra large



QUALITY CERTIFICATES

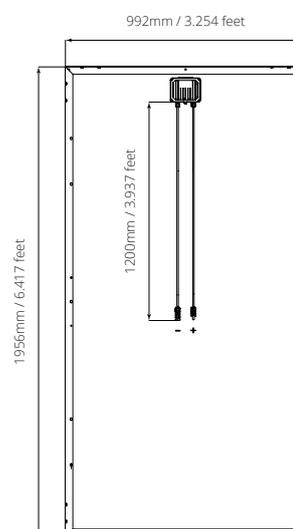
- ◆ IEC 61215, IEC61730, VDE, CE, MCS, CEC AU, UL1703
- ◆ ISO 9001, 14001, 18001 - CE
- ◆ Solarif, PV-Cycle



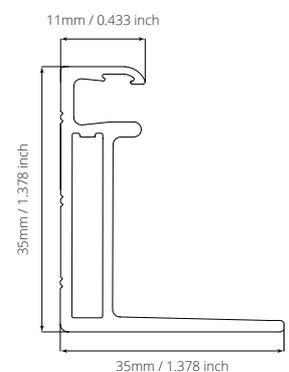
CELLS AND CONSTRUCTION

Cells	72 cells (157 x 157mm) in a 6 x 12 matrix connected in series	
Junction box	IP67 box with 1200mm 4mm ² cable fitted with MC4 connectors	
Diodes	Six by-pass diodes	
Construction	Front:	3.2mm glass
	Back:	Composite film (white or black)
	Encapsulant:	EVA (white or black)
Frame	Anodized aluminium 6063-T5 (silver or black)	
Weight	23kg	
Dimensions	1956 x 992 x 35mm	

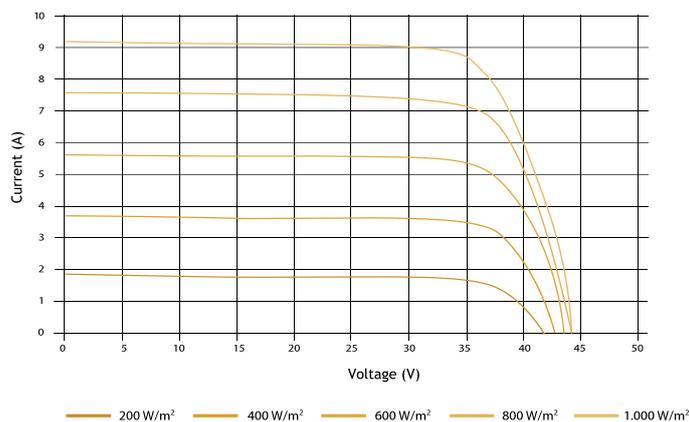
Panel



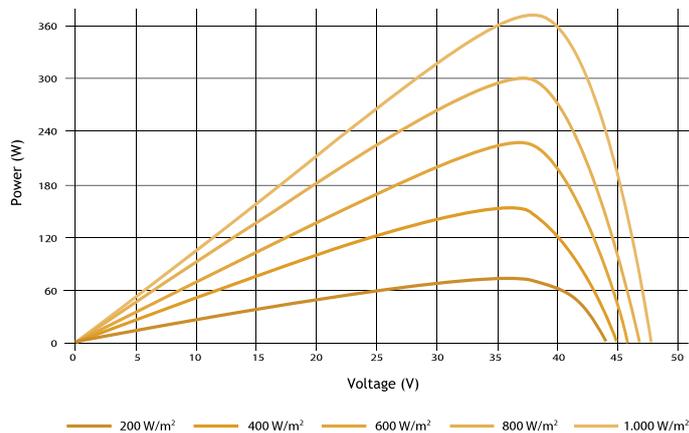
Frame cross section



IV CURVE



POWER CURVE



ELECTRICAL CHARACTERISTICS

		S1.MD355	S1.MD360	S1.MD365	S1.MD370
Nominal power output (Wp)	(Pmax)	355	360	365	370
Power output tolerance (W)	(ΔPmax)	0/+5	0/+5	0/+5	0/+5
Open circuit voltage (V)	(Voc)	47.16	47.44	47.67	47.81
Short circuit current (A)	(Isc)	9.70	9.77	9.84	9.91
Max. power voltage (V)	(Vmp)	38.63	39.01	39.38	39.40
Max. power current (A)	(Imp)	9.19	9.23	9.27	9.41
Module efficiency (%)	(η)	18.30	18.60	18.80	19.10

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)	+0.06% / °C
Voc (β)	-0.28% / °C
Pmax (γ)	-0.38% / °C
Nominal cell temperature	44°C (+/- 2°C)

OTHER CHARACTERISTICS

Operating temperature range	-40°C to 85°C
Max. load (front / wind)	5400 Pa
Ammonia and salt resistance	IEC 62716
Max. hailstone impact	25mm @ 23m/s
Standard packaging	30 pcs
Quantity per 40'HQ container	660 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.

