

MC-EU series solar panels

autarco

The Autarco MC-EU series solar panels are based on high efficiency monocrystalline PERC cells with five bus-bars (5BB) in a 6x10 layout. The resulting rated power of up to 305Wp 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.

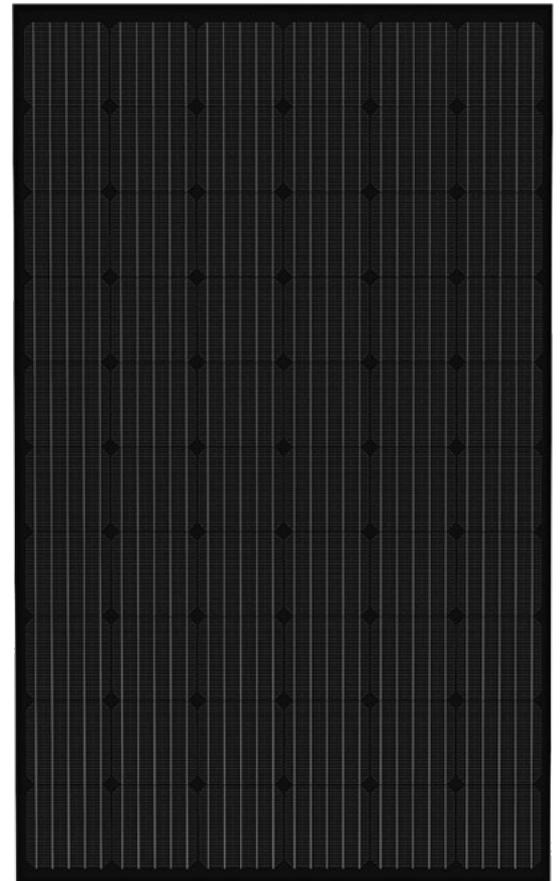
25 Insured linear 25-year performance guarantee up to 80.7%

10 10-year product warranty

 Salt and ammonia resistant

 Free of potential induced degradation (PID)

 Made in Europe



QUALITY CERTIFICATES

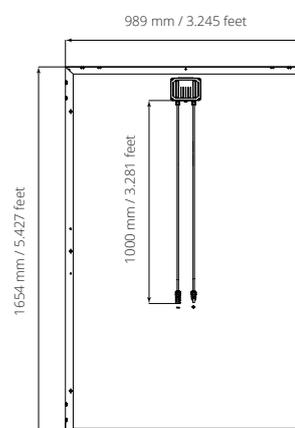
- ◆ IEC 61215, IEC61730, VDE, CE, MCS, CEC AU, UL1703
- ◆ ISO 9001, 14001, 18001 - CE
- ◆ Solarif, PV-Cycle



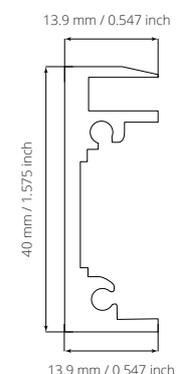
CELLS AND CONSTRUCTION

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	18.2kg	
Dimensions	1654 x 989 x 40mm	

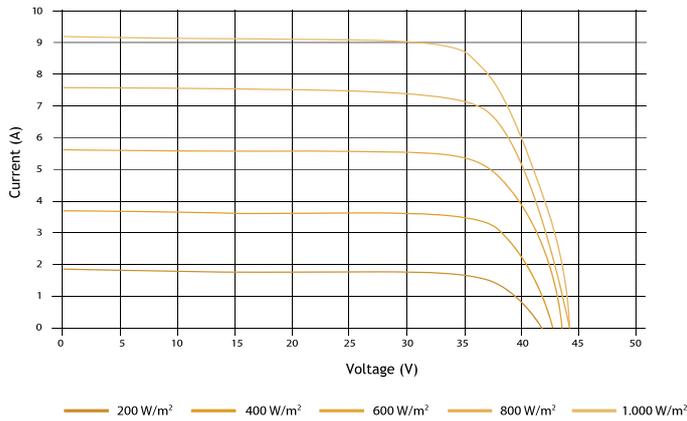
Panel



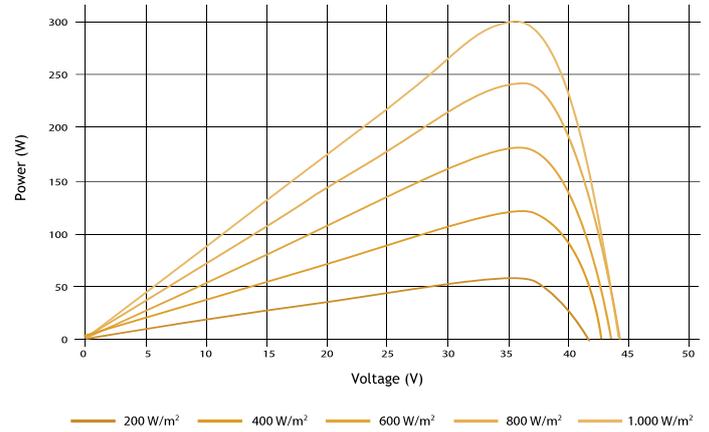
Frame cross section



IV CURVE



POWER CURVE



ELECTRICAL CHARACTERISTICS

		S1.MC290(B)-EU	S1.MC295(B)-EU	S1.MC300(B)-EU	S1.MC305(B)-EU
Nominal power output (Wp)	(Pmax)	290	295	300	305
Power output tolerance (W)	(ΔP_{max})	0/+3%	0/+3%	0/+3%	0/+3%
Open circuit voltage (V)	(Voc)	39.55	39.62	39.69	39.76
Short circuit current (A)	(Isc)	9.56	9.63	9.69	9.76
Max. power voltage (V)	(Vmp)	30.89	31.13	31.38	31.62
Max. power current (A)	(Imp)	9.47	9.56	9.64	9.72
Module efficiency (%)	(η)	17.73	18.03	18.34	18.65

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: 15A

TEMPERATURE CHARACTERISTICS

Isc (α)	+0.037% / °C
Voc (β)	-0.299% / °C
Pmax (γ)	-0.416% / °C
Nominal cell temperature	48°C (+/- 2°C)

OTHER CHARACTERISTICS

Operating temperature range	-40°C to 85°C
Max. load (front / wind)	6000 Pa
Ammonia and salt resistance	IEC 62716, 61701
Max. hailstone impact	25mm @ 23m/s
Standard packaging	22 pcs
Quantity per 40'HQ container	616 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.

