

# autarco

## MC285 solar modules



### Advantages

The MC285 solar modules are monocrystalline modules of the highest quality. They are optimized for use with Autarco inverters and thanks to rigorous quality control and top specifications these models form the perfect basis for your solar power plant.

The modules have excellent component guarantees but of course it's the kWh guarantee of an Autarco PV system that really matters.

- Insured linear 25-year performance guarantee
- Insured 10-year product warranty
- Salt and ammonia resistant
- Free of potential induced degradation (PID)

### Applications

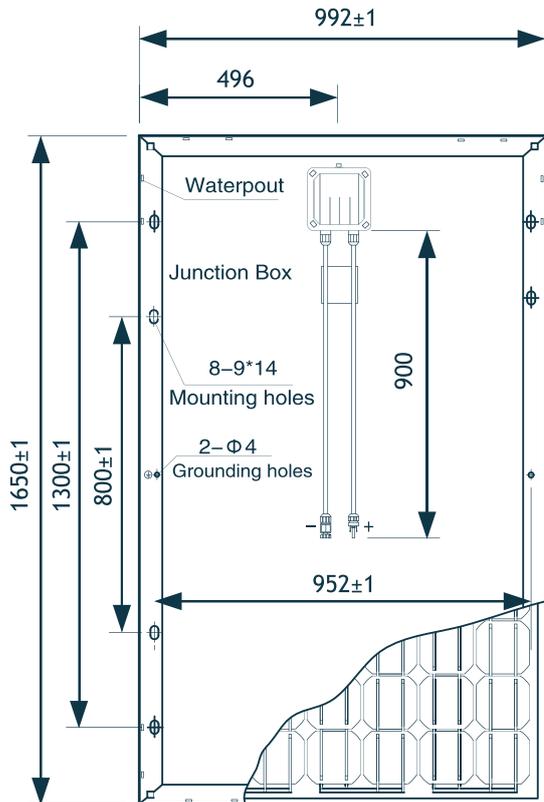
- Commercial projects
- Residential projects
- Agricultural projects
- Large scale PV power plants

### Quality certificates

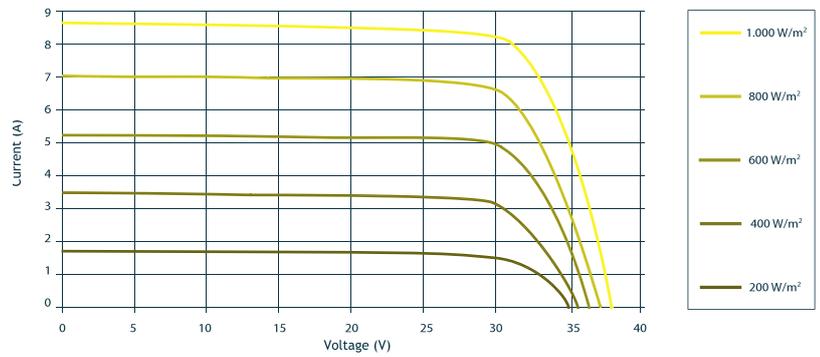
- IEC 61215, IEC61730, VDE, CE, MCS, CEC AU
- ISO 9001, 14001, 18001 - CE
- Solarif, PV-Cycle



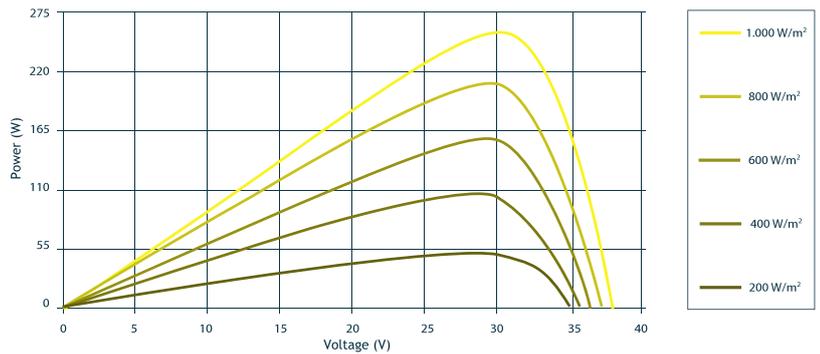
## Module dimensions (mm)



## IV curve



## Power curve



## Electrical characteristics

MC285

Nominal power output (Wp)	(Pmax)	285
Power output tolerance (%)	(ΔPmax)	0/+5W
Open circuit voltage (V)	(Voc)	39.43
Short circuit current (A)	(Isc)	9.38
Max. power voltage (V)	(Vmp)	32.26
Max. power current (A)	(Imp)	8.83
Module efficiency (%)	(μ)	17.43%

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: 15A

## Cells and construction

<b>Cells</b>	60 cells (156 * 156mm) in a 6 * 10 matrix connected in series	
<b>Junction box</b>	IP65 box with 900mm 4mm <sup>2</sup> cable fitted with MC4 connectos	
<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>	18.2 kg	
<b>Dimensions</b>	1650 * 992 * 40 mm	

## Temperature characteristics

<b>Isc (α)</b>	0.049 % / °C
<b>Voc (β)</b>	-0.340 % / °C
<b>Pmax (γ)</b>	-0.410 % / °C
<b>Nominal cell temperature</b>	45 °C

## Other characteristics

<b>Operating temperature range</b>	-40 °C tot 85 °C
<b>Max. load (front / wind)</b>	5400 / 2400 Pa
<b>Ammonia and salt resistance</b>	IEC 62716, 61701
<b>Max. hailstone impact</b>	25mm @ 23m/s
<b>Standard packaging</b>	26 pcs
<b>Quantity per 40'HQ container</b>	728 pcs