

EL-36/5M Series

EL-36/5M80 (80 Watt)
EL-36/5M85 (85 Watt)
EL-36/5M90 (90 Watt)



CE ISO9001 IEC

Monocrystalline PV Modules

Everlight Monocrystalline photovoltaic panels offer industry leading performance in conversion efficiency and are designed specifically for our customers' residential, commercial and industrial needs.

Our high power modules are designed and manufactured to the highest standards, are built to last and backed by our solid product warranty. These modules are ideal for supplying energy for appliances in recreational vehicles and cabins, pumps, beacons and lighting equipment, and solar power recharging stations.

KEY FEATURES

Superior Performance

- Made with highly efficient, reliable Monocrystalline solar cells to ensure output stability and industry leading power generation.
- Low voltage temperature coefficient delivers higher power output
- Advanced surface texturing increases light absorption
- Each model is equipped with by-pass diodes to ensure performance even if partially shaded

Durability

- High-quality tempered glass, EVA and backsheet provide insulation and protection against the elements
- Our patented frame features anti-corrosion treatment and solid aluminum construction

Flexibility

- Our modules are stored and transported using custom packaging to ensure safe delivery
- Innovative hexagonal drainage holes increase flexibility and ease installation no matter what the application

Reliability

- 25 year limited warranty on power output
- 7 year limited warranty on materials and workmanship
- Manufactured to the highest standards in our ISO 9001:2008 certified plant, Helios Photovoltaic Co. Ltd.
- Certified by ISO, CE and IEC

Headquarters-Hong Kong

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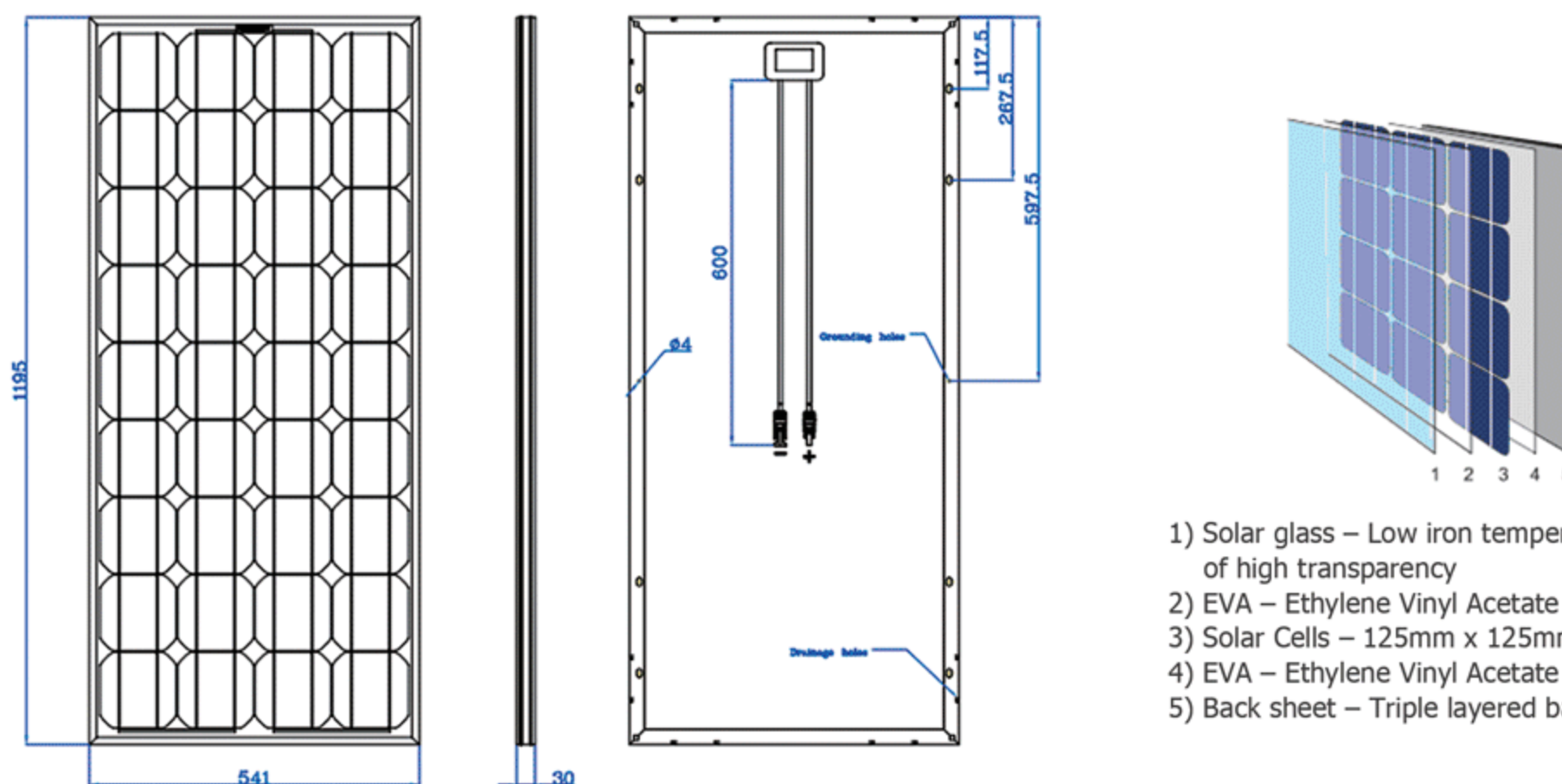
Manufactory-China

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EL-36/5M Series Technical Specifications

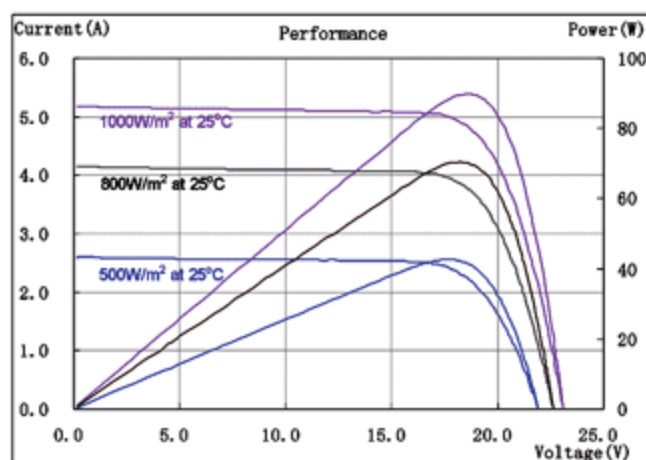
ELECTRICAL CHARACTERISTICS			
Model	EL-36/5M80	EL-36/5M85	EL-36/5M90
Maximum power (Pmax)	80W	85W	90W
Voltage at max. power (Vmp)	18.3V	18.3V	18.6V
Current at max. power (Imp)	4.53A	4.63A	4.81A
Open circuit voltage (Voc)	21.8V	21.9V	22.3V
Short circuit current (Isc)	5.03A	5.07A	5.24A
Temperature coefficient of Isc	(0.065 ± 0.015)%/°C		
Temperature coefficient of Voc	-(80 ± 10)mV/°C		
Temperature coefficient of power	-(0.45 ± 0.05)%/°C		
Operating temperature	-40/+85°C		
MECHANICAL CHARACTERISTICS			
Cell type	125 x 125 monocrystalline solar cell		
Cell array	36 pieces in a 9 x 4 matrix connected in series		
Dimensions (mm)	1195 x 541 x 30		
Weight (kg)	10.5		
Frame	Clear anodized aluminum alloy type universal frame; silver color		
Construction	Front: High-transmission 3.2mm tempered glass Back: Polyester Encapsulant: EVA		

Module Diagram

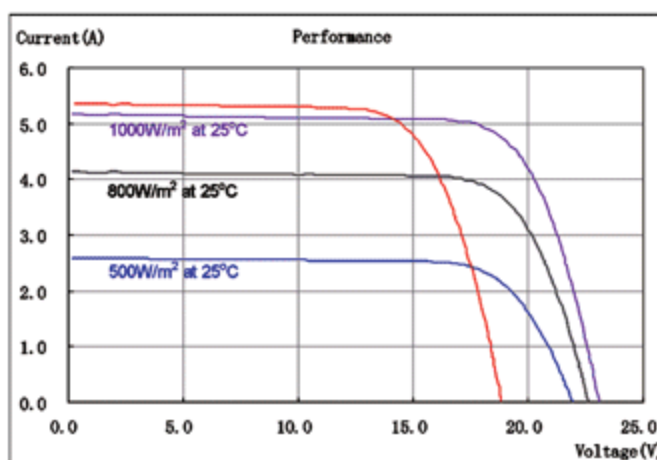


- 1) Solar glass – Low iron tempered glass of high transparency
- 2) EVA – Ethylene Vinyl Acetate sheet
- 3) Solar Cells – 125mm x 125mm
- 4) EVA – Ethylene Vinyl Acetate sheet
- 5) Back sheet – Triple layered back sheet

Electrical Performance



Power Output



TEMPERATURE COEFFICIENTS

Isc = +0.065 %/°C
 Voc = -0.436 %/°C
 Pmax = +0.488 %/°C

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