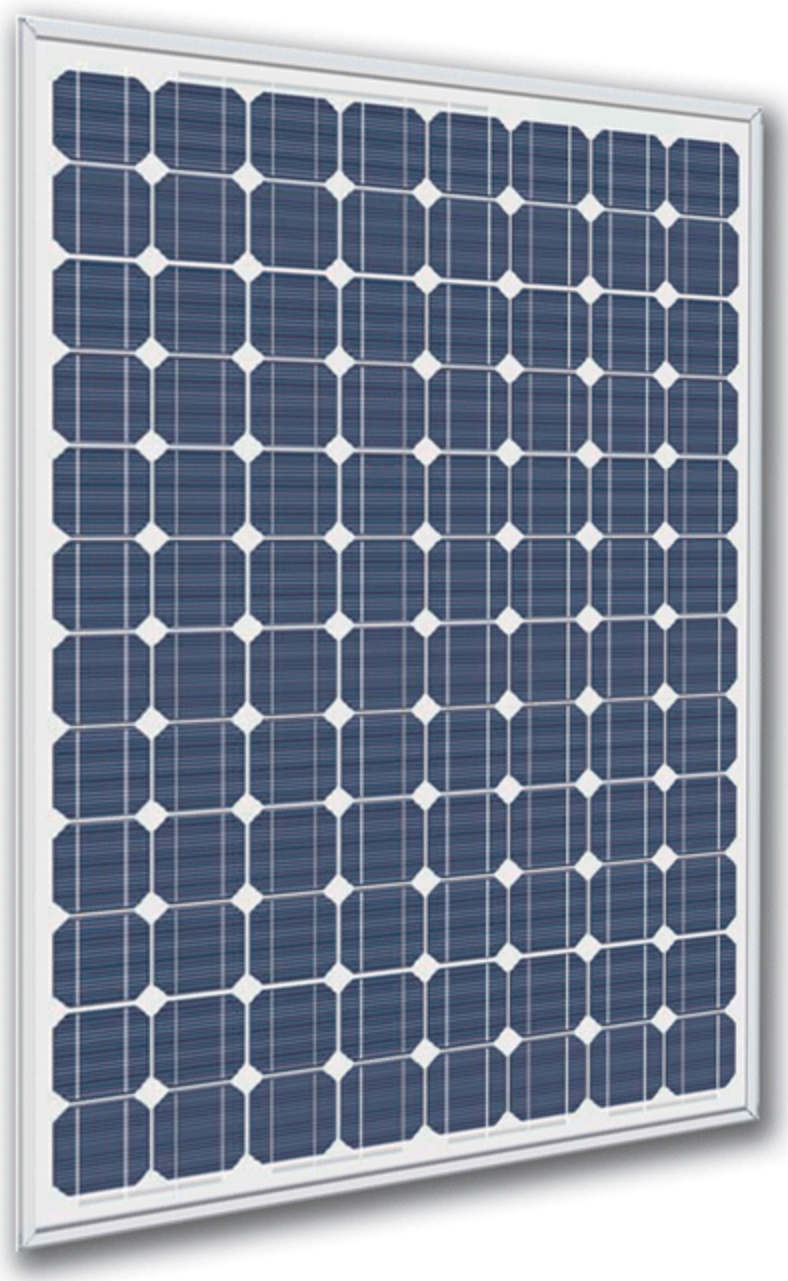
Solar is the Future

EVERLIGHT

EL-96/5M Series

EL-96/5M220 (220 Watt)
EL-96/5M230 (230 Watt)
EL-96/5M240 (240 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 designed for grid connected power plants up to 1000VDC and large, stand alone systems for battery charging or water pumping.

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

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HELIOS PHOTOVOLTAIC

Manufactory-China

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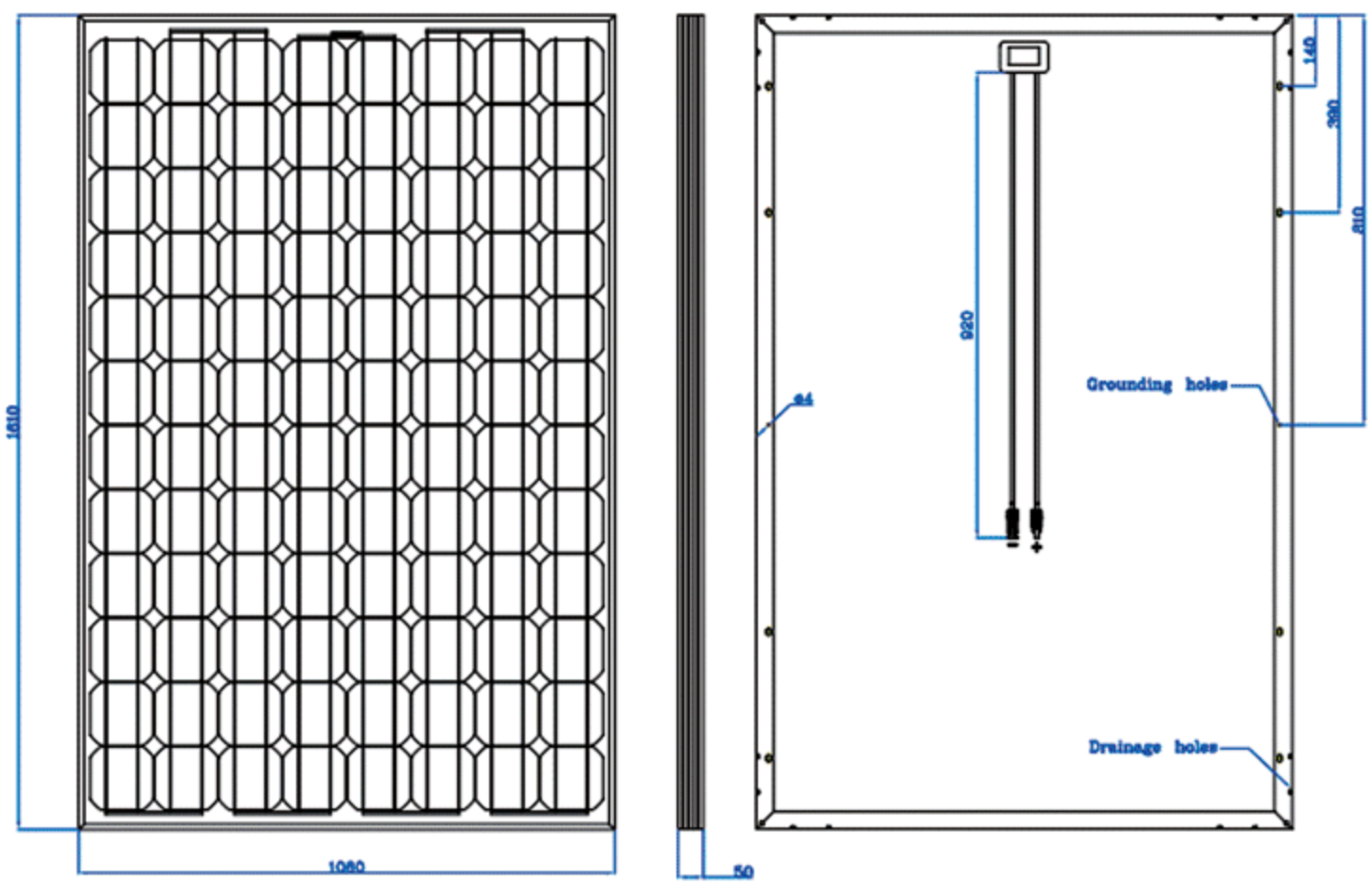
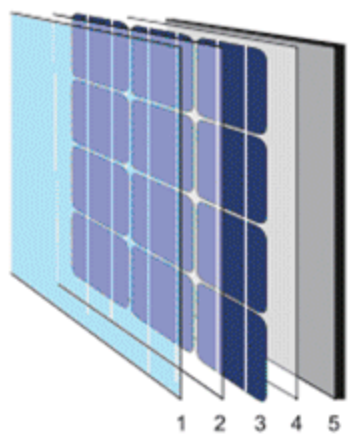
EL-96/5M Series Technical Specifications

ELECTRICAL CHARACTERISTICS			
Model	EL-96/5M220	EL-96/5M230	EL-96/5M240
Maximum power (Pmax)	220W	230W	240W
Voltage at max. power (Vmp)	49.0V	49.2V	49.8V
Current at max. power (Imp)	4.52A	4.64A	4.82A
Open circuit voltage (Voc)	61.1V	61.5V	61.7V
Short circuit current (Isc)	4.80A	4.98A	5.19A
Temperature coefficient of Isc	(0.065 ± 0.015)%/°C		
Temperature coefficient of Voc	-(160 ± 20)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	96 pieces in a 12 x 8 matrix connected in series
Dimensions (mm)	1610 x 1060 X 50
Weight (kg)	24
Frame	Clear anodized aluminum alloy type universal frame; silver color
Construction	Front: High-transmission 4mm tempered glass Back: Polyester Encapsulant: EVA

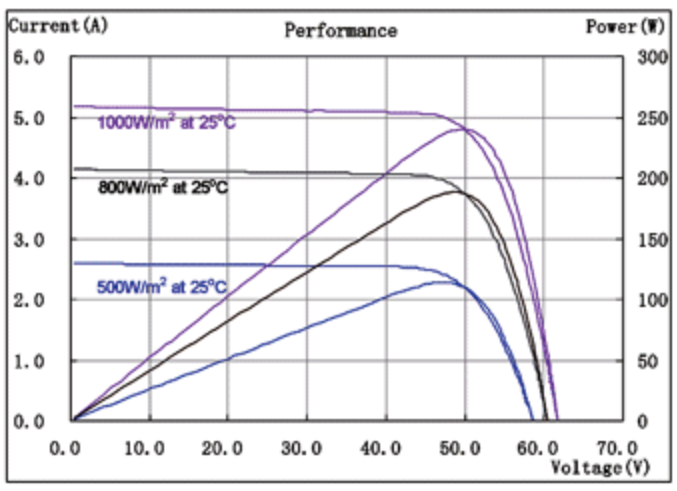
Module Diagram



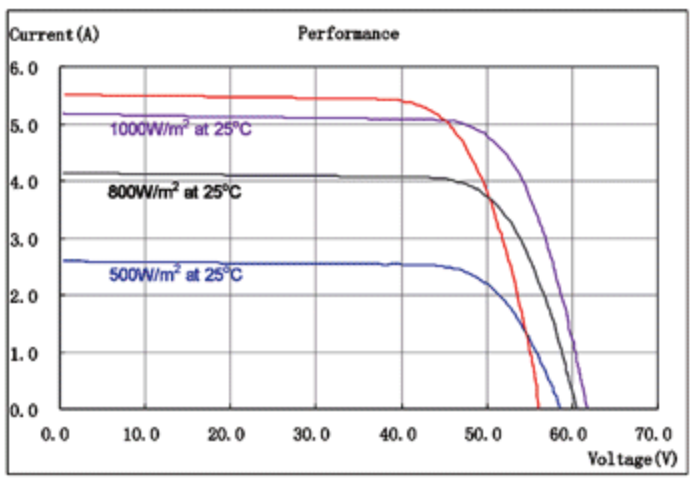


1) Solar glass – Low iron tempered glass of high transparency
2) EVA – Ethylene Vinyl Acetate sheet
3) Solar Cells – 125mm x 125mm
4) EVA – Ethylene Vinyl Acetate sheet
5) Back sheet – Triple layered back sheet

Electrical Performance



Power Output



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

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