

OUR SERVICES

- Provision of Solar Modules and Solar Power Systems
- Systems Solutions & Consultancy
- Systems Installation Services

CONTACTS

Sales & Marketing:

sales@topscm.us

Customer Service:

cust@topscm.us

Technical Support:

tech@topscm.us

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TECHNOLOGY SOLUTIONS

www.topscm-solar.com

Helios-series Solar Module

A solar module is an essential part of a Solar Power System, regardless of a Grid-connected System or Off-grid System. Hence, it is crucial that performance, safety, reliability must be considered factors when choosing a solar module.

The Helios-series Solar Module offers a unique blend of features and innovative technologies yielding a product with excellent performance and quality that makes it a safe and reliable choice.

Helios-series Solar Module – an ideal investment choice that reaps returns.



Features

- High efficiency and reliable solar cells ensure best performance
- Excellent output power under high temperature operation

Quality

- Advanced EVA encapsulation system with triple-layer backsheet meets the most stringent safety requirements for HV operation
- Anodized AL frame allows modules to be mounted on various standard racking systems and to withstand harsh conditions
- Ultra reliable bypass diodes prevent damage through overheating due to shaded or defective cells
- Innovative, environmentally-friendly packing method ensures modules arrive in good condition
- New frame design incorporating hexagonal shaped drainage holes offers flexible installation

Benefits

- Manufactured in an ISO9001:2000 certified facility insures quality and confidence
- Highly efficient, safe, reliable and stable performance means minimal maintenance required
- Tight tolerance of $\pm 3\%$ in output power variation achieves optimal system performance

Product Information

Specifications (120 – 140 W)

Model Number	H-140/36S	H-130/36S	H-120/36S
Peak Power (Pmax)	140W	130W	120W
Cell Type	Poly Crystalline Silicon, 156mm×156mm		
Cell Configuration	36 cells in series		
Max. Power Voltage (Vmp)	17.60V	17.41V	17.40V
Max. Power Current (Imp)	7.95A	7.47A	6.89A
Open Circuit Voltage (Voc)	21.96V	21.75V	21.75V
Short Circuit Current (Isc)	8.41A	8.10A	7.63A
Max. System Voltage	DC 1000V		
Temperature Coefficient of Isc (TK Isc)	0.065 %/°C		
Temperature Coefficient of Voc (TK Voc)	- 0.346 %/°C		
Temperature Coefficient of Pmax (TK Pmax)	- 0.488 %/°C		
Normal Operating Cell Temperature	45.3 ±2°C		
Weight	12.0kg		
Dimensions	1482×676×34mm		

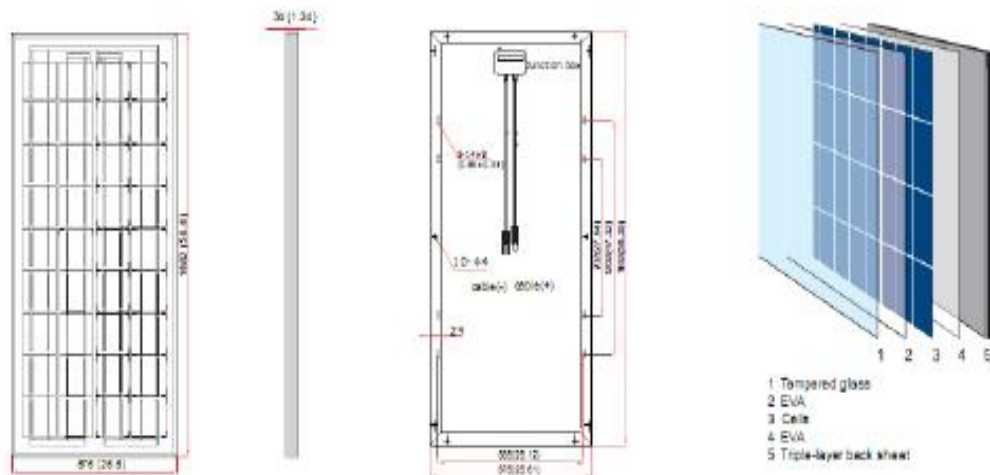
Note: Specifications are obtained under the Standard Test Conditions (STCs): 1000W/m² Solar Irradiance, 15 Air Mass Index and Cell Temperature of 25°C.

A GREEN MESSAGE

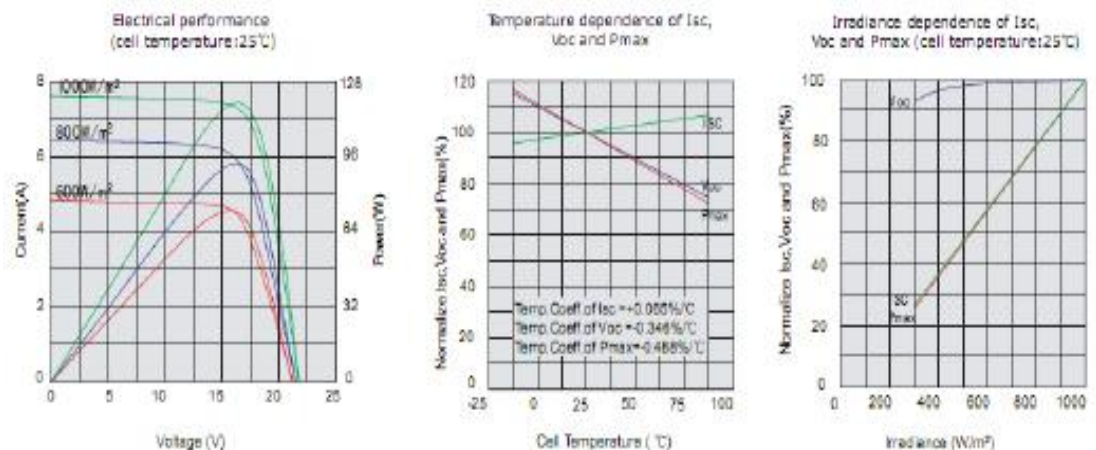
Using renewable solar energy enables us to reduce the use of fossil fuels to generate energy. Fossil fuel energy generation pollutes our environment. You are empowered to help. Do your part. Be a responsible global citizen. **SAVE GAIA.**



PHYSICAL CHARACTERISTICS Unit:mm (inch)



ELECTRICAL CHARACTERISTICS



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