

Monocrystalline Solar Module

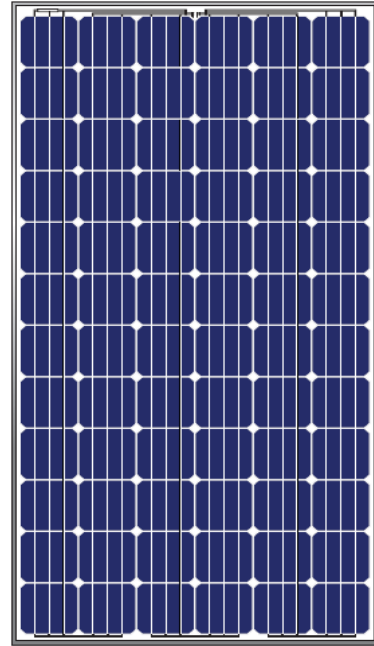
XH280M(72)/ XH285M(72)/ XH290M(72)
XH295M(72)/ XH300M(72)/ XH305M(72)

Warranty

10-year repair and workmanship warranty

12-year warranty at 90% power output

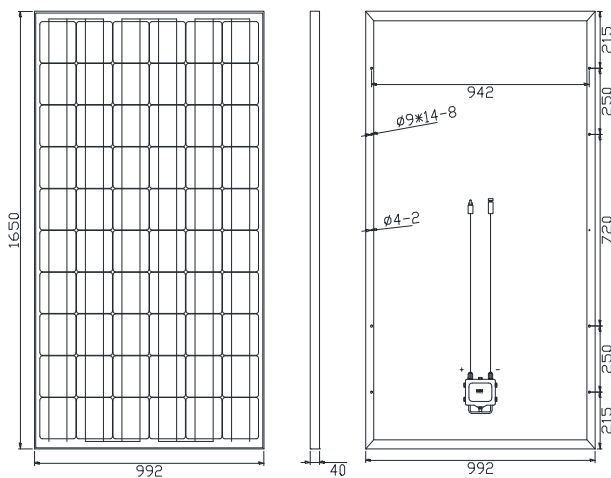
25-year warranty at 80% power output



Typical Electrical Characteristics

Models	XH280M(72)	XH285M(72)	XH290M(72)	XH295M(72)	XH300M(72)	XH305M(72)
Max. Power (Pmax)	280Wp	285Wp	290Wp	295Wp	300Wp	305Wp
Optimum Operating Voltage (Vm)	36.52V	36.62V	36.77V	36.92V	37.12V	37.32V
Optimum Operating Current (Im)	7.67A	7.78A	7.89A	7.99A	8.08A	8.17A
Open-circuit Voltage (Voc)	45.02V	45.42V	45.72V	45.92V	46.10V	46.28V
Short-circuit Current (Isc)	8.52A	8.56A	8.59A	8.62A	8.64A	8.67A
Cells efficiency	16.3%	16.6%	16.9%	17.2%	17.5%	17.8%

Note: the specifications are obtained under the Standard Test Condition (STC): 1,000W/m², Am 1.5, Cell Temperature 25°C

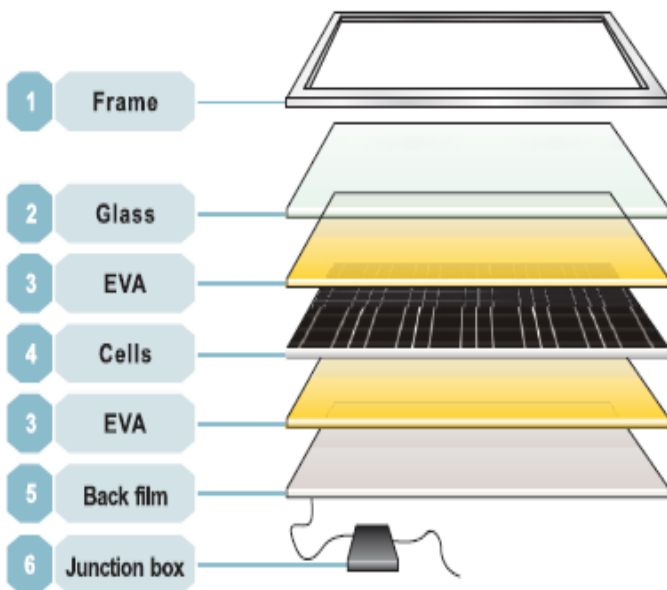


Solar Cell	Mono-crystalline 156×156mm
Power Tolerance (Pmax)	0 ~ +3%
Numbers of cells	72pcs of cells in series
Module Dimension	1956×992×50mm
Weight	25Kg
Max. System Voltage	1000V DC
Max. Series Fuse Rating	15A
Temperature cycling range	-40°C ~ +85°C
NOTC	47°C
Temperature coefficients of Isc	(+0.06%/°C)
Temperature coefficients of Voc	(-0.35%/°C)
Temperature coefficients of Pmax	(-0.4%/°C)
Load Capacity	144pcs/ 20'GP
	400pcs/ 40'HQ

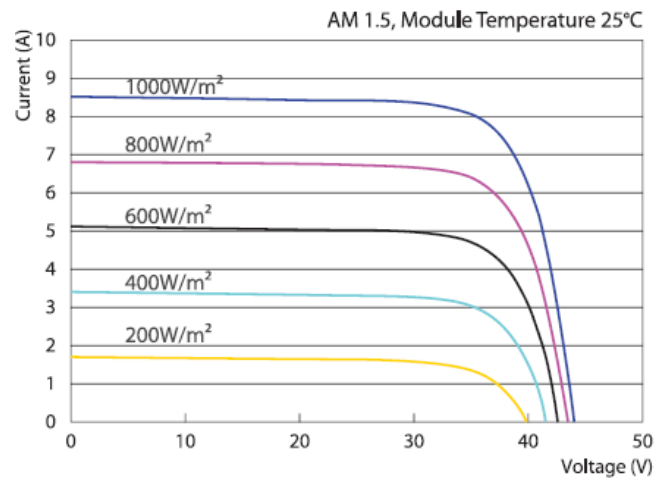
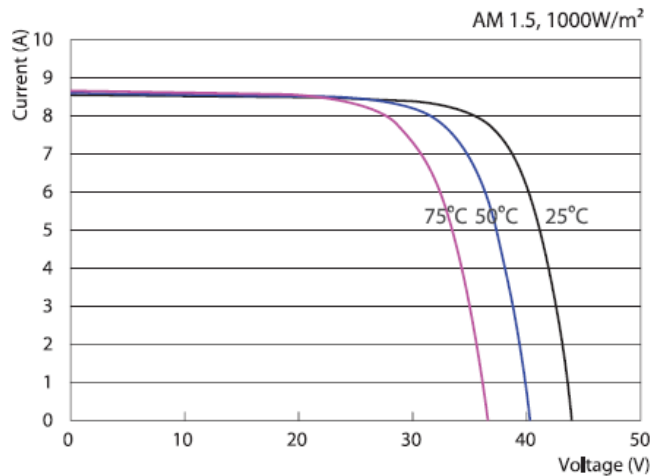
Functional Features

- ◆ Applies to commercial, residential applications for on-grid and off-grid applications.
- ◆ Produced with strict quality control standards and a worldwide certification program.
- ◆ Easily installed on the ground, roof, building face or tracking system.
- ◆ Reduces electricity cost and creates energy independently.
- ◆ Modular, no moving parts, fully scalable and easily installed.
- ◆ Reliable and virtually maintenance-free power generation.
- ◆ Helps environment by reducing air, water and land pollution.
- ◆ Provides clean, quiet and reliable electricity generation.

Certification



I-V CURVE



The Structure of Solar Modules

Cells

The hi-efficiency of mono and poly solar cells ensure adequate power for panels.

Glass

Low-iron tempered glass, 3.2mm thickness with higher reflectivity.

EVA

Higher transmission rate, antioxidant capacity and temperature resistance, no expansion or contraction.

Back film

Increase efficiency of modules slightly and reduce module's temperature. Aging resistance, corrosion resistance and airtight.

Aluminum Frame

Using the framework of the anodized aluminum frame with high intensity, mechanical shock resistance capacity.