

ENERGÍA SOLAR

# 85 / 90 / W Polycrystalline Solar Module

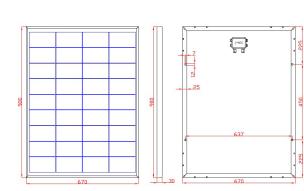


## Warranty

10-year repair and workmanship warranty12-year warranty at 90% power output25-year warranty at 80% power output

Typical Electrical Characteristics		
Models	NHN- 85W-PS	NHN- 90W-PS
Max. Power (Pmax)	85Wp	90Wp
Optimum Operating Voltage (Vm)	17.6V	17.8V
Optimum Operating Current (Im)	4.83A	5.06A
Open-circuit Voltage (Voc)	22.4V	22.6V
Short-circuit Current (Isc)	5.12A	5.36A
Module efficiency	14.1%	15.0%

Note: the specifications are obtained under the Standard Test Condition (STC): 1,000W/m<sup>2</sup>, Am 1.5, Cell Temperature 25°C



Solar cell	Poly-crystalline 156×91mm 0
Power Tolerance (Pmax)	~+3%
Numbers of cells	36pcs of cells in series
Module Dimension	900×670×30mm
Weight	7.2Kg
Max. System Voltage	1000V DC
Max. Series Fuse Rating	
Temperature cycling range	-40°C ~ +85°C
NOTC	47°C
Temperature coefficients of lsc	(+0.06%/°C)
Temperature coefficients of Voc	(-0.35%/°C)
Temperature coefficients of Pmax	(-0.4%/°C)
Load Capacity	540pcs/ 20'GP
	1080pcs/ 40'GP

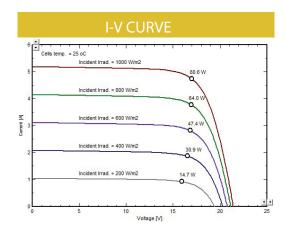


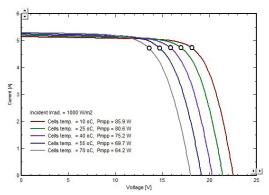
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# **Functional Features**

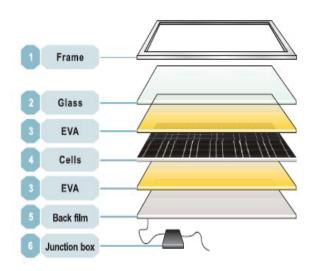
- Applies to commercial, residential applications for off-grid applications.
- Produced with strict quality control standards and a worldwide certification program.
- Easily installed on the ground, roof, building face or tracking system.
- Reduces electricity cost and creates energy independently.
-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





### Certification





### The Structure of Solar Modules

#### Cells

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

#### Glass

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

#### EVA

Highertransmission 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.