

Mono-crystalline Solar (72 Cells)

- ✓ High-performance solar modules offering higher efficiency, lower installation costs
- ✓ 36 high - quality mono-crystalline cells per module
- ✓ Tested to IEC 61215, IEC 61730, CE, RoHS
- ✓ 25-year linear performance warranty
- ✓ Manufactured with international quality standards & environment management system ISO 9001 & ISO 14001, 8001

Helios Solar Works manufactures high-performance mono-crystalline solar modules for solar electric systems. We use only high-quality components and an advanced, automated manufacturing platform to offer modules that deliver higher efficiency, lower installation costs, and a smaller system footprint.

Helios Solar Works is headquartered in Milwaukee, Wisconsin. We manufacture our modules using the best materials sourced from regional and partner manufacture

TYPE

CHN 72M

CHARACTERISTICS

Dimension: 1,580 x 808
Area: 1.28 m² (13.74 Sq Ft)
Thickness: 35 mm (1.378")
Weight: 15.5 kg (34.17 lbs)

OUTPUT CLASSES

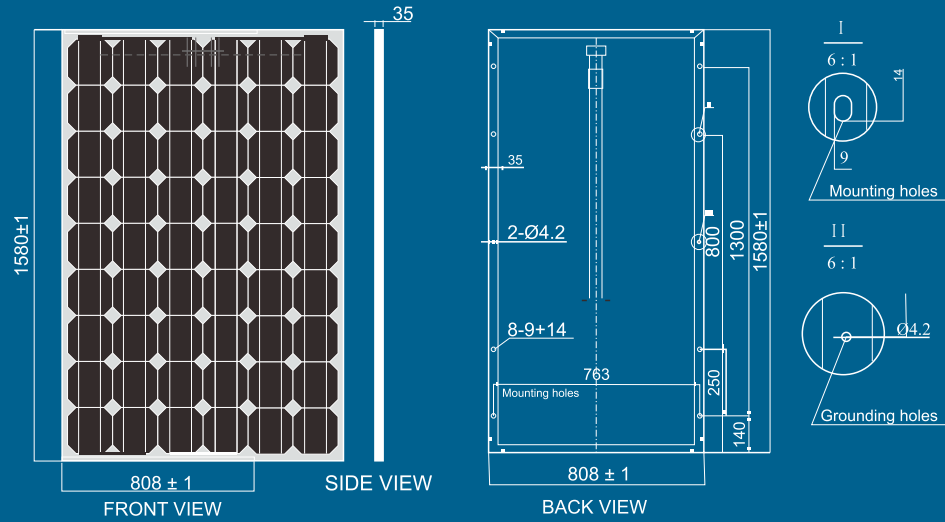
185W, 190W, 195W, 200W, 205W, 210W

WARRANTY

10-years manufacturing warranty
12-years warranty 90% power output
25-years warranty 80% power output



DIMENSION



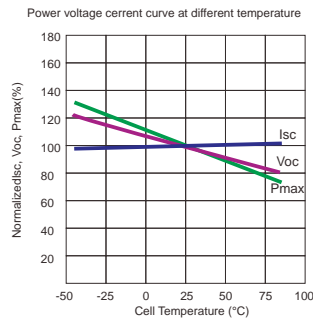
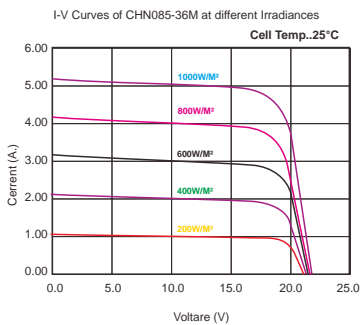
ELECTRICAL CHARACTERISTIC

ELECTRICAL CHARACTERISTIC	185Wp	190Wp	195Wp	200Wp	205Wp	210Wp
Maximum Power at STC (Pmax)	= 185Wp	190Wp	195Wp	200Wp	205Wp	210Wp
Short Circuit Current (Isc)	= 5.31A	5.60A	5.72A	5.80A	5.91A	5.81A
Open Circuit Voltage (Voc)	= 44.60V	44.60V	44.80V	45.00V	45.00V	45.10V
Maximum Power Current (Impp)	= 4.84A	4.95A	5.05A	5.15A	5.25A	5.54A
Maximum Power Voltage (Vmpp)	= 38.20V	38.40V	38.60V	38.80V	39.00V	37.90V
Encapsulated Cell Efficiency	= -	-	-	-	-	-
Module Efficiency	= 14.49%	14.88%	15.27%	15.67%	16.06%	16.45%
Power Tolerance	= 0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%

Measured at (STC) Standard Test Conditions 25° C, insolation 1,000 W/m², AM 1.5.

TEMPERATURE CHARACTERISTIC

Norminal Operating Cell Temperatur (NOCT)	= 45°C±2°C
Temperature Coefficient of Pmax	= -0.44%/°C
Temperature Coefficient of Voc	= -0.34%/°C
Temperature Coefficient of Isc	= 0.06%/°C



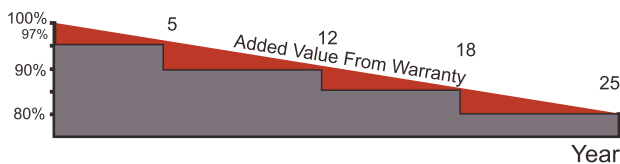
PACKING CONFIGURATION

Container	= 20'GP	40'GP
Pieces per pallet	= 30	30
Pallets per container	= 14	28
Pieces per container	= 446	924

SYSTEM INTEGRATION PARAMETERS

Maximum system voltage	DC 1000V
Maximum Series Fuse	10A
Increased snowload acc. to IEC 61215	5400Pa
Operating Temperature	-40to+85°C
Number of bypass diodes	3 or 6

INDUSTRY-LEADING WARRANTY BASED ON NOMINAL POWER



- Based on nominal power (pnom)
- 25-year transferrable power output warranty : 5 years/95%, 12 years/90%
18 years/85%, 25 years/8-%
- 10-year material and workmanship

QUALIFICATIONS AND CERTIFICATES

