

SOLAR MODULES

Features & Performance

Our PV modules have been certified by the TUV, CE, CSA; Helios Sun 7 is certified by ISO9001, ISO14001, OHSAS18001 etc. As a leading PV manufacturer in Indonesia, our prioritized goal is to keep developing and producing high quality and high efficiency modules.

- Maximum Power: 200Wp**
- Module Efficiency: 16.45%**
- Product Warranty: 10 years**
- Power Warranty: 10 years $\geq 90\%$
25 years $\geq 80\%$**

ST72M200

Mechanical Property

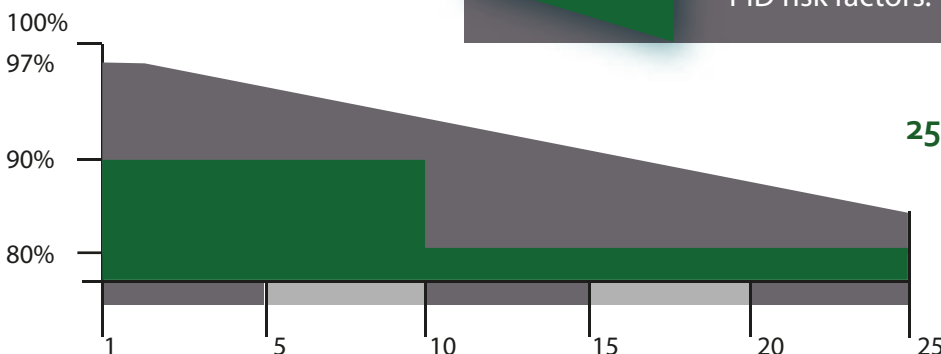
Snow loads up to 5400Pa
Wind loads up to 2400Pa

Low Light Performance

Excellent performance under low light (morning, evening and cloudy days)

High Durability

Durable PV modules, independently tested for harsh environmental conditions, such as exposure to salt mist, ammonia and known PID risk factors.



25 Years Linear Warranty

Electrical Performance (STC : AM 1.5, 1000W/m², 25°C)

Module Type	ST72M200
Maximum Power (Pmax / W)	200
Power Tolerance	
Maximum Power Voltage (Vm / V)	37.4
Maximum Power Current (Im / A)	5.36
Open Circuit Voltage (Voc / V)	45.0
Short Circuit Current (Isc / A)	5.78
Module Efficiency (%)	15.67

Electrical Performance (NOCT : wind speed 1m/s, 800W/m², 20°C)

Module Type	ST72M200
Maximum Power (Pmax / W)	146
Maximum Power Voltage (Vm / V)	33.9
Maximum Power Current (Im / A)	4.30
Open Circuit Voltage (Voc / V)	41.4
Short Circuit Current (Isc / A)	4.67

Mechanical Properties

Dimensions (LxWxH / mm)	1580x808x35
Weight (Kgs)	14.6
Solar Cells	Monocrystalline 125x125mm
No. of Cells	72 (6x12)
Glass	3.2mm low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP 65 above, 3 bypass diodes
Cables	4mm ² , length 900mm
Connectors	IP67, MC4 compatible

Operation Conditions

Maximum System Voltage (VDC)	1000 (IEC) / 600 (UL)
Maximum Series Fuse Rating (A)	10
Operating Module Temperature (°C)	-40 to +85

Temperature Properties

Normal Operating Cell Temperature	45±2 °C
Temperature Coefficient of Pm	-0.45 %/°C
Temperature Coefficient of Voc	-0.344 %/°C
Temperature Coefficient of Isc	+0.021 %/°C

System Design

Hail safety impact velocity	D 25mm at 23mm/s
Static Load (Front/Back)	5400Pa/2400Pa
Application class	Class A
Fire safety class (IEC61730)	Class C

Packing Configuration

Container Sizes	20GP	40HC
Pieces per pallet	30	
Pallets per Container	6+6	14+14

