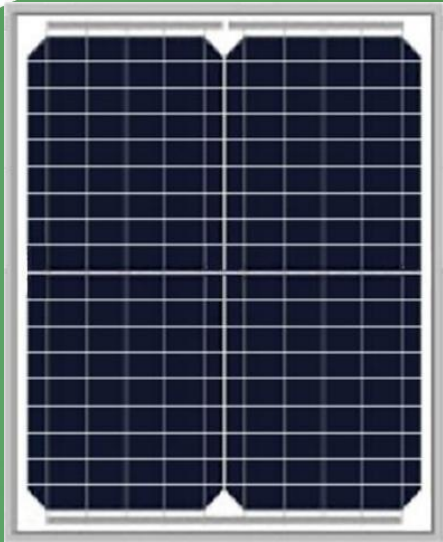




Monocrystalline Module

Dimensions : 340*425*17mm

Mono Power : 18W~23W



23W

Max power output

15.92%

Max Efficiency

±3%

Positive Power Tolerance

SUNWORTH - Your Trusted Brand of High Quality

- Professional crystalline silicon photovoltaic module manufacturer.
- Fully automated production line with leading photovoltaic technology.
- Adopt strict international standard quality management system ISO 9001:2015, ISO14001: 2015.
- Passed variety of harsh environmental tests (salt spray, ammonia and sand storm corrosion test IEC61730-2:2016, IEC61215:2016).
- Twice EL test to ensure the reliability of the solar modules.



5 Bus Bar Solar Cells

5 BB solar cells, improve the modules' efficiency ,and contributed a better aesthetic appearance



High Efficiency

High efficiency solar cells to keep the module efficiency reach to 15.92%



Low-light Performance

Advanced glass and cell surface textured design ensure excellent performance in low-light environment



PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production



Severe Weather Resilience

2400 Pa wind load
5400 Pa snow load



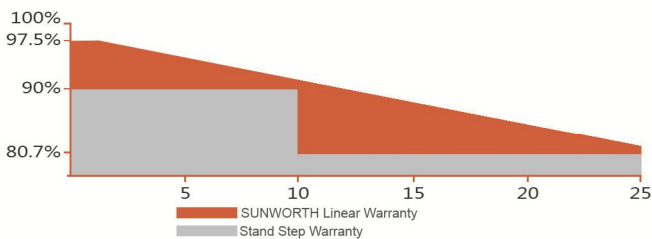
100% EL Testing

100% EL detection before and after lamination

Linear Performance Warranty

10 years Product Warranty

25 years Linear Power Warranty



Dimensions: 340*425*17mm
Mono Power: 18W~23W

Electrical Characteristics

Model No.	SW020M-36
Maximum Power (Pmax)	20W
Max-power Voltage (Vmp)	19.30V
Max-power Current (Imp)	1.04A
Open-circuit Voltage (Voc)	23.22V
Short-circuit Current (Isc)	1.15A
Module Efficiency	13.84%
Operating Temperature	-40°C~+85°C
Maximum System Voltage	300Vdc
Maximum Series Fuse Rating	5A
Power Tolerance	±3%

*STC condition: 1000 W/m², 1.5AM and 25°C cell temperature

Temperature Characteristics

NMOT	46°C±2°C
Temperature Co-efficient of Pmax	-0.398%/°C
Temperature Co-efficient of Voc	-0.340%/°C
Temperature Co-efficient of Isc	0.0576%/°C

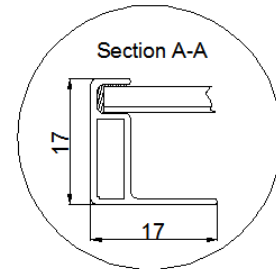
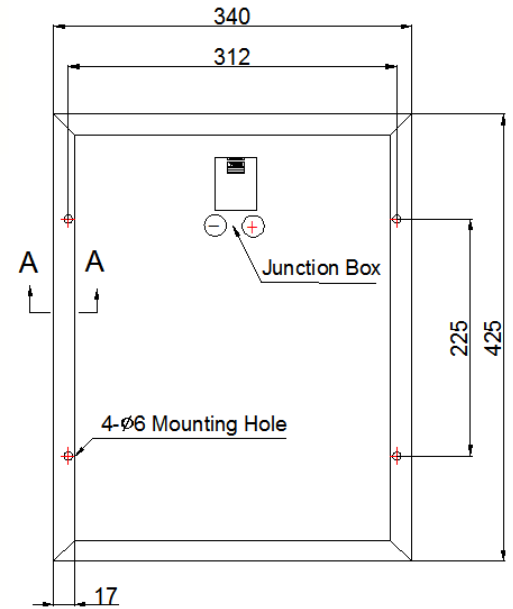
Mechanical Characteristics

Mono Power	18W~23W
Cell Type	Mono 78.38*39.19mm
Cell Arrangement	36(4*9)
Dimensions	340*425*20mm
Weight	1.2kg
Front Cover	3.2mm tempered glass
Frame Material	Anodized aluminium alloy
Junction Box	IP65 rated
Output Cables	/

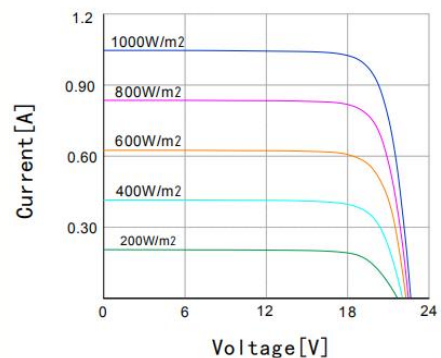
Packing

Packing	20'GP	40'HC
Pieces per Carton	15	15
Pieces/container	6000	13200

Module Size



I-V Curve



SUNWORTH solar modules have superior performance under low solar irradiation condition (200W/m² (AM1.5, 25 °C)

Certificate

Website: www.sunworthsolar.com