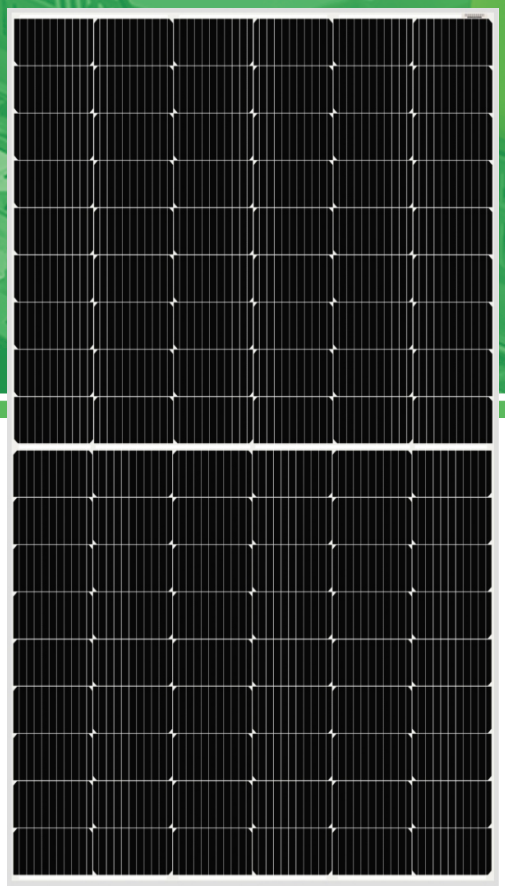
SUNMASTER



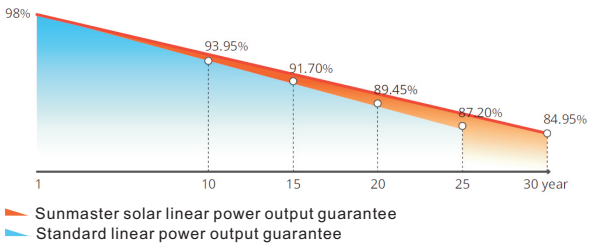
Monocrystalline PV Module

SM300~315W(108)

300-315W

QUALITY GUARANTEE

- 15-Year material & technology warranty
- 30-Year linear power output warranty



CERTIFICATIONS

- IEC 61215, IEC 61730, CE
- ISO 9001 :2015: Quality management system
- ISO 14001 :2015: Environmental management system
- ISO 45001 :2018: Occupational health and safety management system

SUPER PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 21.25% by using innovative Half-cell design and Multi-busbar(MBB) cell technology.
- Low temperature coefficient and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- High reliabitity against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.

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MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline PERC 166*83mm
Number of cells	108(6x18)
Module dimensions	1590x1038x35mm (62.60x40.87x1.38inches)
Weight	17.5kg (38.85lbs)
Front cover	3.2mm(0.13inches) tempered glass with AR coating
Frame	Anodized aluminum alloy
Junchon box	⩾IP68 & UL
Cable	4mm^2(0.006inches^2), Portrait: 300mm (11.81inches); Landscape: 1200mm (47.24inches)
Connector	MC4 or MC4 compatible

TEMPERATURE CHARACTERISTICS

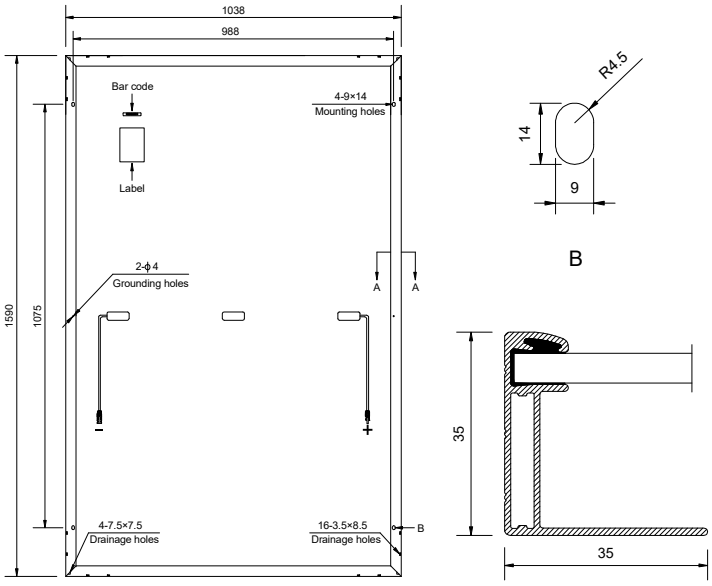
Nominal Operating Cell Temperature (NOCT)	43℃±2℃
Temperature Coefficients of Pmax	-0.36% / ℃
Temperature Coefficients of Voc	-0.28% / ℃
Temperature Coefficients of Isc	0.05% / ℃

PACKAGING

Standard packaging	31pcs/pallet
Module quantity per 20'container	186pcs
Module quantity per 40'container	806pcs(HQ)

ENGINEERING DRAWINGS

Unit: mm



Rear View

Section A-A

Specifications in this datasheet are subject to change without prior notice.

ELECTRICAL CHARACTERISTICS AT STC

Maximum Power (Pmax)	300W	305W	310W	315W
Open Circuit Current (Voc)	34.26V	34.47V	34.68V	34.87V
Short Circuit Current (Isc)	10.37A	10.44A	10.51A	10.57A
Voltage at Maximum Power (Vmp)	30.23V	30.44V	30.64V	30.85V
Current at Maximum Power (Imp)	9.93A	10.02A	10.12A	10.22A
Module Efficiency(%)	19.17	19.34	19.51	19.68
Operating Temperature	-40°C to +85°C			
Maximum System Voltage	1000V DC/1500V DC			
Fire Resistance Rating	Type 1(in accordance with UL1703)/Class C(IEC61730)			
Maximum Series Fuse Rating	25A			

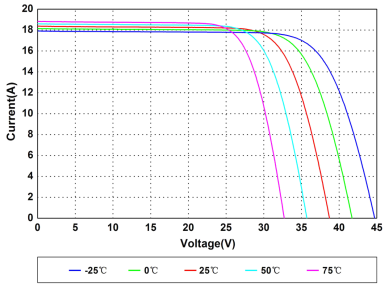
STC Irradiance 1000W/m^2, Cell temperature 25°C, AM1.5; Tolerance of Pmax ±3%; Measurement Tolerance ±3%

ELECTRICAL CHARACTERISTICS AT NOCT

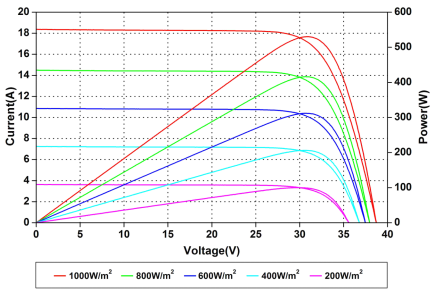
Maximum Power (Pmax)	225W	228W	231W	234W
Open Circuit Current (Voc)	33.2V	33.4V	33.6V	33.8V
Short Circuit Current (Isc)	8.49A	11.15A	11.2A	11.25A
Voltage at Maximum Power (Vmp)	27.51V	27.72V	27.91V	28.12V
Current at Maximum Power (Imp)	8.18A	8.23A	8.28A	8.32A

NOCT: Irradiance 800W/m^2, Ambient temperature 20°C, Wind Speed 1m/s

IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures