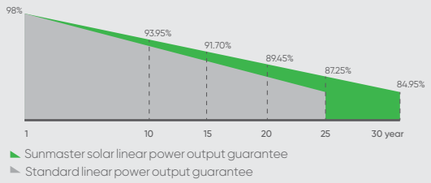
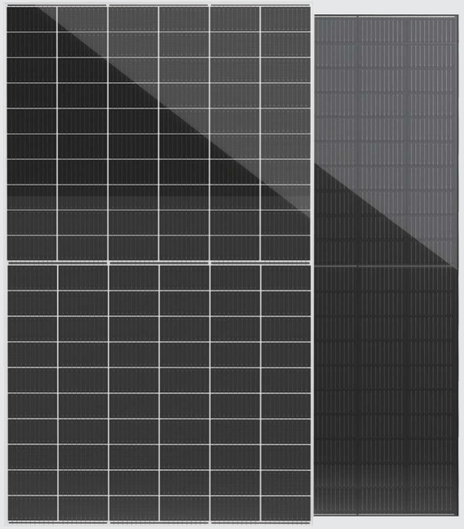
SunMaster 3M

SM350-385W(120)

166mm Cells Mono PERC with MBB & Half-cut Technology

Quality Guarantee





Standard All Black

350-385W

-0.55% power attenuation

30years Power warranty

Comprehensive Products and System Certificates

IEC 61215 / IEC 61730 / CE / INMETRO

ISO 9001-
2015/Quality management system

ISO 14001-
2015/Standards for environmental management system

ISO 45001-
2018/International standards for occupational health & safety

Key Features

Optimal Process Design
166mm+9BB+Half-cut, higher power output

Select Grade A Crystalline Silicon Solar Cells
Grade A crystalline silicon solar cells make high-power output with cost-effective

Stable Generation Performance
Power attenuation:first year ≤2%, 0.55% per year from 2-25

Process Upgraded
Lower risk of hot spot and stronger anti-PID ability

Higher Power Gains and Lower Losses
Excellent low irradiance performance and low shadow loss

Strong Environmental Adaptability and Great Durability
Certified by Dust-Sand, Salt-Mist, Ammonia etc. weather resistance tests and enhanced mechanical load: wind load (2400 Pa) and snow load (5400 Pa)

Mechanical Characteristic

Cell type	Monocrystalline PERC 166*83mm
Number of cells	120(6x20)
Module dimensions	1756x1039x35mm (69.13x40.91 x1.38inches)
Weight	18.5kg (41.07bs)
Front cover	3.2mm(0.13inches) tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction box	≥IP68 & UL
Cable	4mm² (0.006inches²), Portrait: 300mm (11.81inches); Landscape: 1200mm (47.24inches)
Connector	MC4 or MC4 compatible

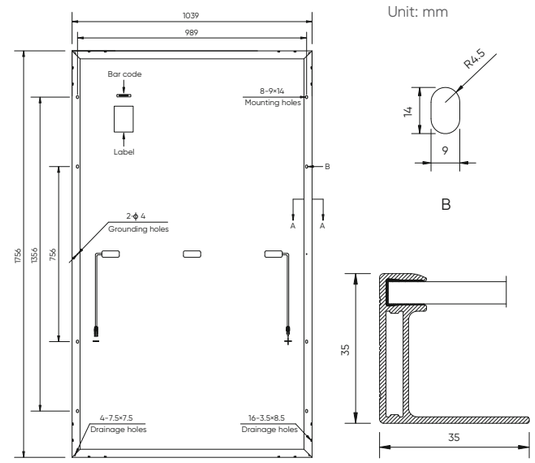
Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	43°C±2°C
Temperature Coefficients of Pmax	-0.36% /°C
Temperature Coefficients of Voc	-0.28% /°C
Temperature Coefficients of Isc	0.25% /°C

Packaging

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

Engineering Drawings



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

Electrical Characteristics at STC

Maximum Power (Pmax)	350W	355W	360W	365W	370W	375W	380W	385W
Open Circuit Voltage (Voc)	40.8V	41.0V	41.2V	41.4V	41.6V	41.8V	42.0V	42.2V
Short Circuit Current (Isc)	11.02A	11.09A	11.16A	11.23A	11.3A	11.37A	11.44A	11.51A
Voltage at Maximum Power (Vmp)	33.8V	34.0V	34.2V	34.3V	34.6V	34.8V	35.0V	35.2V
Current at Maximum Power (Imp)	10.36A	10.45A	10.53A	10.62A	10.70A	10.78A	10.86A	10.94A
Module Efficiency(%)	19.18	19.46	19.73	20.01	20.28	20.55	20.83	21.10
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							

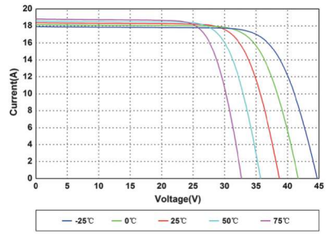
STC Irradiance 1000W/m2, Cell temperature 25°C, AM1.5; Tolerance of Pmax ±3%; Measurement Tolerance ±3%

Electrical Characteristics at NOCT

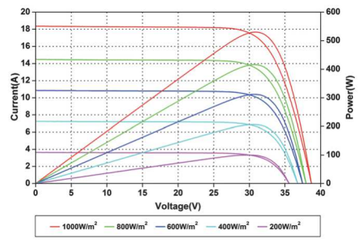
Maximum Power (Pmax)	259W	263W	267W	271W	275W	279W	283W	287W
Open Circuit Voltage (Voc)	37.4V	37.6V	37.8V	38.0V	38.2V	38.4V	38.6V	38.8V
Short Circuit Current (Isc)	8.91A	8.97A	9.03A	9.09A	9.15A	9.21A	9.27A	9.33A
Voltage at Maximum Power (Vmp)	30.8V	31.0V	31.2V	31.4V	31.6V	31.8V	32.0V	32.2V
Current at Maximum Power (Imp)	8.41A	8.49A	8.56A	8.64A	8.71A	8.78A	8.85A	8.92A

NOCT: Irradiance 800W/m2, 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