

SL120-166MN
375-390W

MONOCRYSTALLINE MODULE

Positive power tolerance of 0~+3%

ISO9001:2015 certified factory
IEC61215, IEC61730 certified products

(9BB) PERC



KEY FEATURES



9 Busbar Solar Cell:

More uniform current collection capacity, reduce the current and heat loss of the cell inside the module, beautiful appearance, more suitable for roof installation.



High Efficiency:

Higher module conversion efficiency (up to 20.90%) benefit from Passivated Emmitter Rear Contact (PERC) technology.



PID RESISTANT:

Mass-produced modules pass PID test (85 C /85% RH, 96H), limited power degradation by PID test is guaranteed for mass production.



Low-light Performance:

Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments.



Severe Weather Resilience:

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

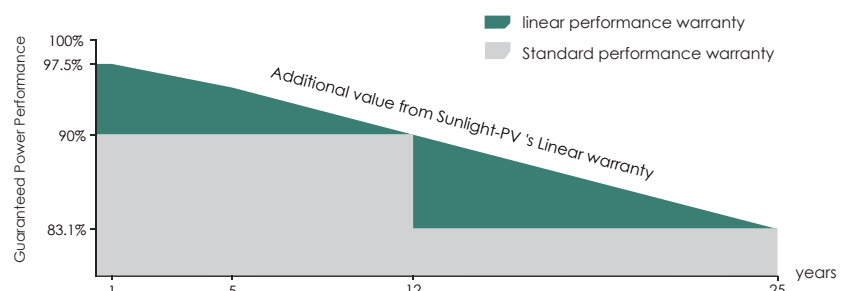


Durability against extreme environmental conditions:

High salt mist and ammonia resistance certified by TUV SUD.

LINEAR PERFORMANCE WARRANTY

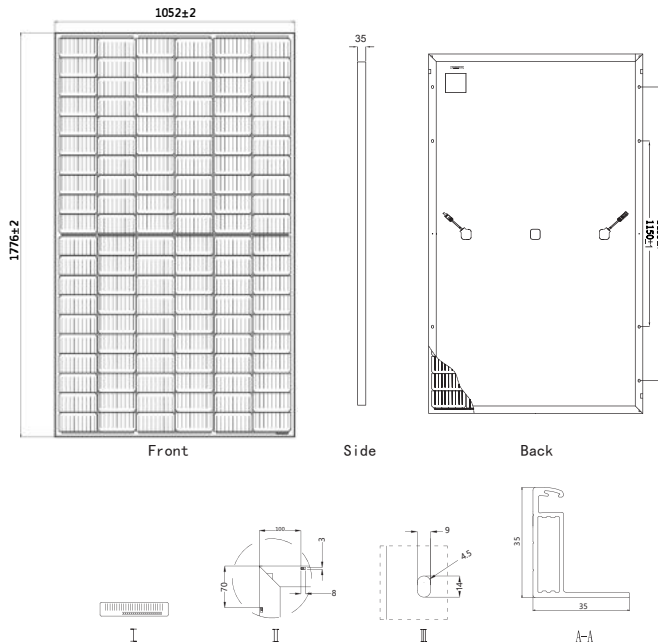
12 Year Product Warranty 25 Year Linear Power Warranty



Product Certification



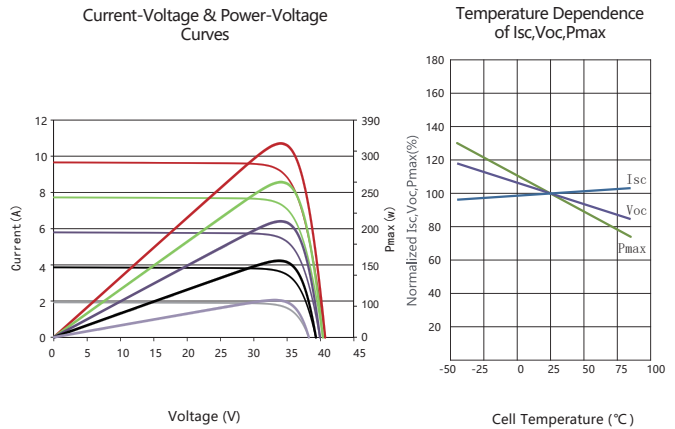
Engineering Drawings



Packaging Configuration

Vehicle type	40HQ
Quantity of each support	30
Number of supports per vehicle	24
Number of vehicles per vehicle	720

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	Mono-crystalline PERC 166×166mm
No. of cells	120 (12×10)
Dimensions	1776×1052×35mm (69.92×41.41×1.37 inch)
Weight	20.7 kg (45.63lbs)
Front Glass	3.2mm, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67/IP68 Rated
Output Cables	TÜV 4.0mm ² Wire, MC4 Connector

SPECIFICATIONS

Module Type	SL120-166MN-375W		SL120-166MN-380W		SL120-166MN-385W		SL120-166MN-390W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	375Wp	284Wp	380Wp	287Wp	385Wp	291Wp	390Wp	295Wp
Maximum Power V (Vmp)	34.50V	32.55V	34.77V	32.72V	35.04V	32.96V	35.33V	33.20V
Maximum Power Current (Imp)	10.87A	8.71A	10.93A	8.78A	10.99A	8.83A	11.04A	8.88A
Open-circuit Voltage (Voc)	41.45V	38.89V	41.62V	39.14V	41.78V	39.38V	41.94V	39.63V
Short-circuit Current (Isc)	11.41A	9.25A	11.47A	9.30A	11.53A	8.83A	11.58A	9.40A
Module Efficiency STC (%)	20.1%		20.3%		20.6%		20.9%	
Operating Temperature (°C)	-40°C~+85°C							
Maximum system voltage	1000V/1500V DC (IEC)							
Maximum series fuse rating	20A							
Power tolerance	0~+3%							
Temperature coefficients of Pmax	-0.350%/°C							
Temperature coefficients of Voc	-0.272%/°C							
Temperature coefficients of Isc	+0.044%/°C							
Nominal operating cell temperature (NOCT)	45±2°C							

STC: Irradiance 1000W/m Cell Temperature 25°C AM=1.5

NOCT: Irradiance 800W/m Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s