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Solar Panel Guide Specification Data Sheet

Shenzhen Shine Solar Co., Ltd.

SN-M140-160

SN-M155

Also available on the web at
EnergyPal.com/shenzhen-shine-solar-co-ltd-solar-panels/sn-m155



Datasheet

140Wp — 160Wp

Monocrystalline solar PV module

Model Number	SN-M140	SN-M145	SN-M150	SN-M155	SN-M160	SN-M165
Maximum Power (pmax)	140Wp	145Wp	150Wp	155Wp	160Wp	165Wp
Optimum Operating Voltage/Vmp	18.0V	18.0V	18.0V	18.0V	36V	36V
Optimum Operating Current/Imp	7.76A	8.06A	8.33A	8.61A	4.44A	4.58A
Open Circuit Voltage /Voc	21.6V	21.6V	21.6V	21.6V	43.2V	43.2V
Short Circuit Current /Isc	7.96A	8.26A	8.53A	8.81A	4.64A	4.78A
Module Efficiency	14.1%	14.6%	15.1%	15.6%	16.1%	16.6%
Power Tolerance (%)				±3		
Maximum Series Fuse Rating				15A		
Maximum system voltage				1000 V DC		

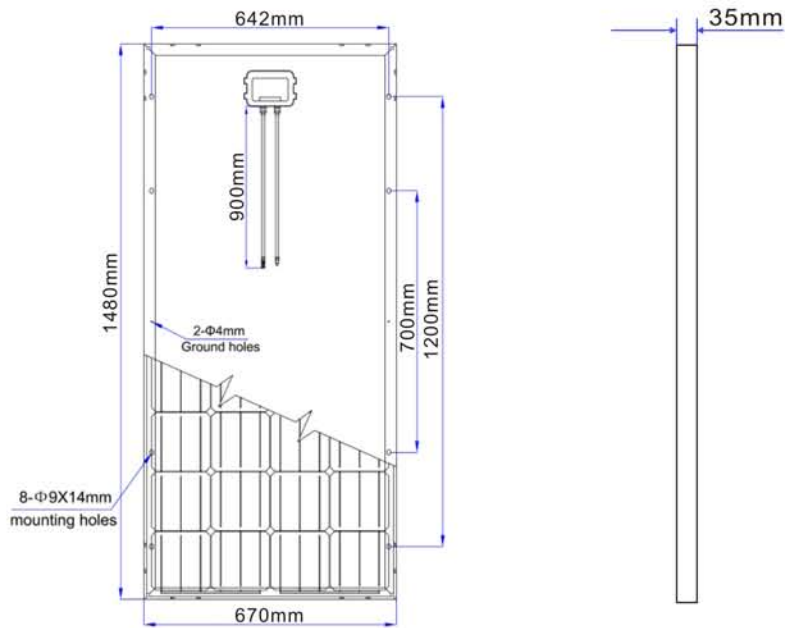
Maximum Data

Operating Temperature	-40°C~+80°C	°C
Storage temperature	from -40°C ~+80°C	°C
Instulation cut voltage	1000	DC
Maximum wind resistance	60m/s	N/m ² or max Km/h
Surface maximum load capacity	200	Kg/m ²
Maximum hail load capacity	25mm	80km/h

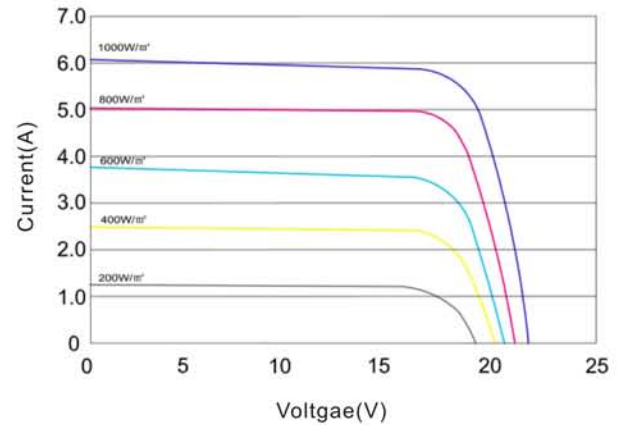
EFFICIENCY

- Low voltage-temperature coefficient allows higher power output at high-temperature condition
- High efficient, high reliable solar cells ensure our product output stability

Physical Characteristics



I-V Curve



Laminating Data

Cell dimension (mm)	156 x 156
Dimensions (mm)	1480x670x35
Number of cells	36(4*9)
Weight	13Kg
Frame Material	Clear anodized aluminium frame
Thickness of glass	3.2 mm tempered glass
Frame	Anodized aluminum alloy
Laminating material	EVA
Backsheet material	TPT
Junction Box	Ip65

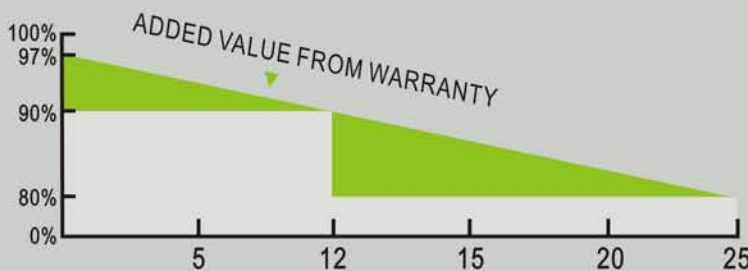
STC

AM condition	AM1.5
Intensity of illumination	1000W/m ²
temperature	25°C

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.45%/°C
Temperature Coefficient of Voc	-0.34%/°C
Temperature Coefficient of Isc	0.050%/°C

Superior Warranty



- 10** 10-years Manufacturing warranty.
- 12** 12-years warranty 90% power output.
- 25** 25-years warranty 80% power output.