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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Shenzhen Shine Solar Co., Ltd.**

**SN-M90-100**

**SN-M090**

Also available on the web at  
[EnergyPal.com/shenzhen-shine-solar-co-ltd-solar-panels/sn-m090](http://EnergyPal.com/shenzhen-shine-solar-co-ltd-solar-panels/sn-m090)



# Datasheet

## 90Wp — 100Wp



## Monocrystalline solar PV module

Model Number	SN-M090	SN-M100
Maximum Power (pmax)	90Wp	100Wp
Optimum Operating Voltage/Vmp	18.0V	18.0V
Optimum Operating Current/Imp	5.00A	5.56A
Open Circuit Voltage /Voc	21.6V	21.6V
Short Circuit Current /Isc	5.2A	5.76A
Module Efficiency	13.9%	15.5%
Power Tolerance (%)	±3	
Maximum Series Fuse Rating	15A	
Maximum system voltage	1000 V DC	

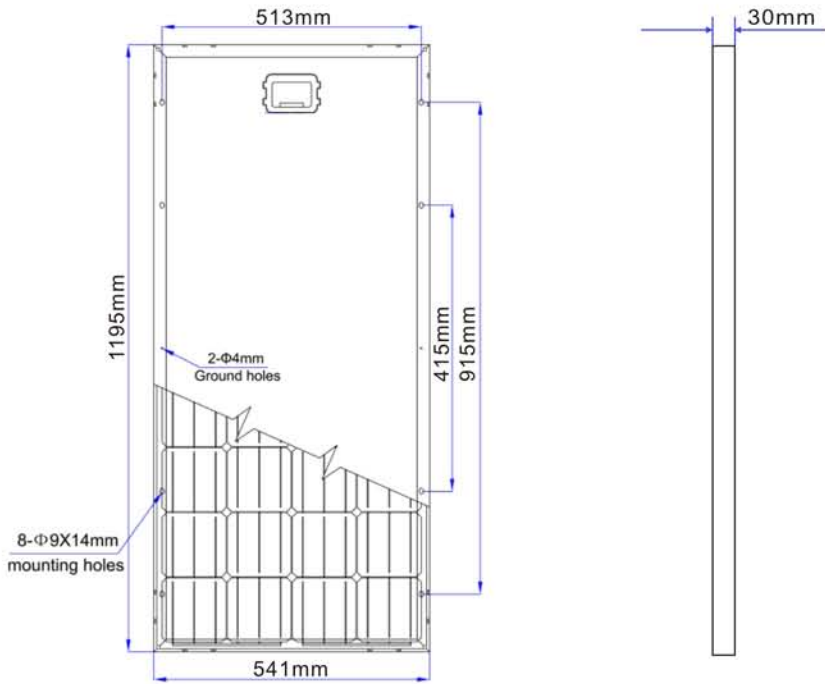
### Maximum Data

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 <sup>2</sup> or max Km/h
Surface maximum load capacity	200	Kg/m <sup>2</sup>
Maximum hail load capacity	25mm	80km/h

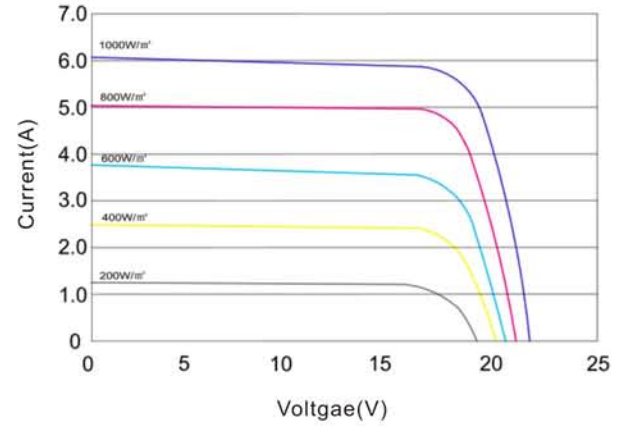
### EFFICIENCY

-  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)	125 x 125
Dimensions (mm)	1195x541x30
Number of cells	36(4*9)
Weight	9.6Kg
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

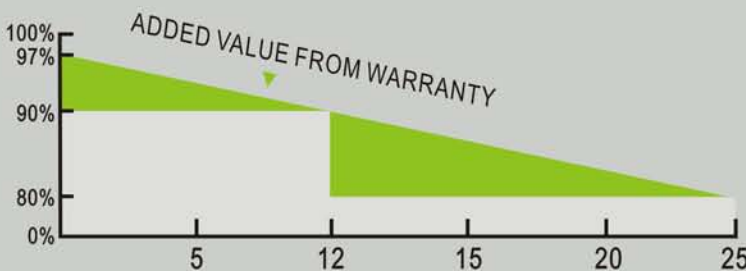
## STC

AM condition	AM1.5
Intensity of illumination	1000W/m <sup>2</sup>
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.