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Solar Panel Guide Specification Data Sheet

Shenzhen Shine Solar Co., Ltd.

SN-M220-235

SN-M230

Also available on the web at
EnergyPal.com/shenzhen-shine-solar-co-ltd-solar-panels/sn-m230

Datasheet

220Wp — 235Wp

Monocrystalline solar PV module





Model Number	SN-M220	SN-M225	SN-M230	SN-M235
Maximum Power (pmax)	220Wp	225Wp	230Wp	235Wp
Optimum Operating Voltage/Vmp	27V	27V	27V	27V
Optimum Operating Current/Imp	8.15A	8.33A	8.52A	8.70A
Open Circuit Voltage /Voc	32.4V	32.4V	32.4V	32.4V
Short Circuit Current /Isc	8.75A	8.93A	9.12A	9.30A
Module Efficiency	15%	15.4%	15.7%	16%
Power Tolerance (%)				±3
Maximum Series Fuse Rating				15A
Maximum system voltage				1000 V DC

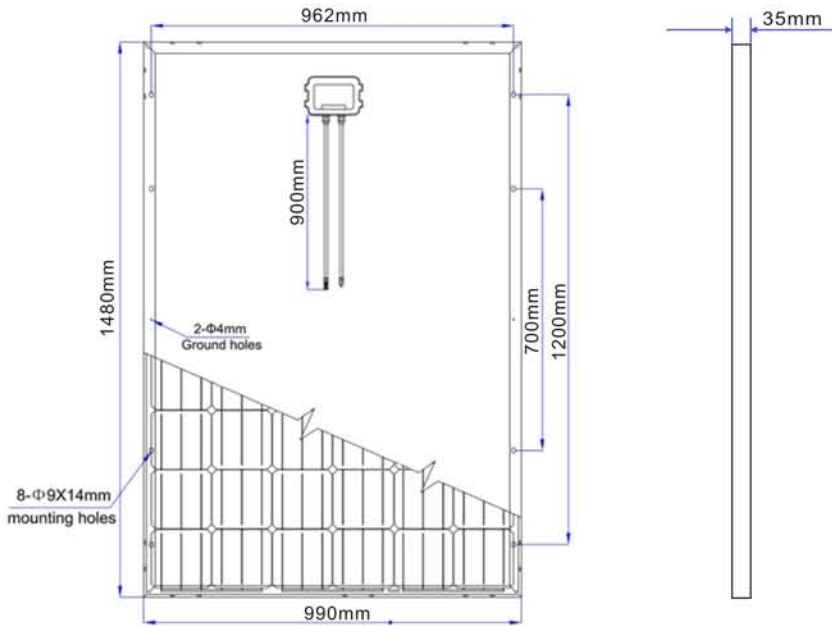
Maximum Data

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

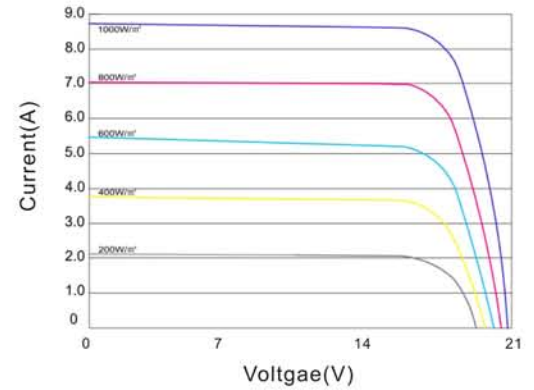
EFFICIENCY

-  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)	1480x990x35
Number of cells	54(9*6)
Weight	17.5Kg
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.