

Polycrystalline Solar PV Module

20W
Power

18V
Voltage

1.11A
Current

>19%
Cell Efficiency

The Main Features



High efficiency
Module efficiency leading in industry



+3W Power and tolerance
0~+3W positive power tolerance guarantee



Stronger surface resistance to mechanical loads
It has passed the certification of 6000Pa snow load and 3600Pa wind load



High reliability and weather resistance
Through dust, salt fog, ammonia corrosion test, can effectively deal with the harsh environment



The hail test
It passed the hail test with a diameter of 45mm and a speed of 30.7m/s

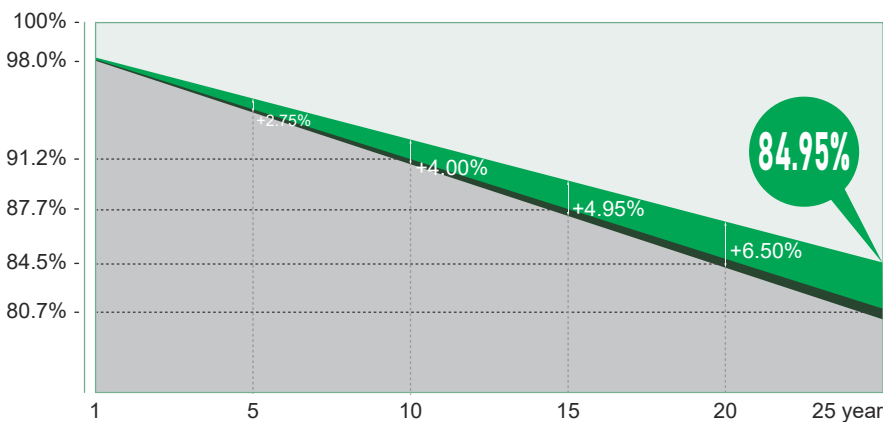


Lower temperature coefficient
Better temperature coefficient makes the power attenuation less at high temperature

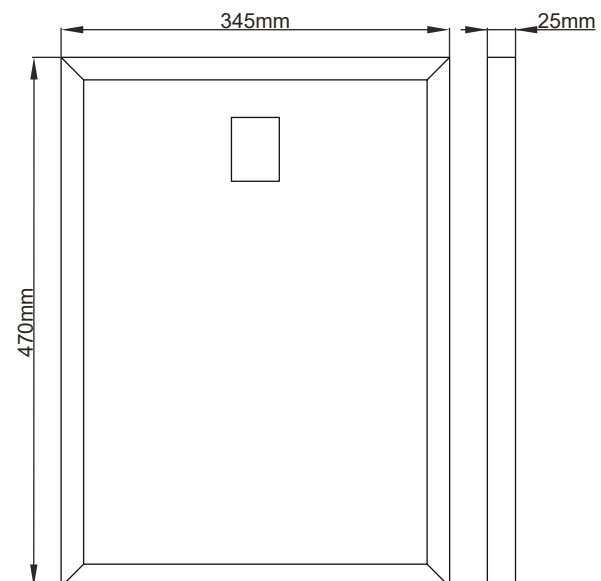


Quality Guarantee

12-year materials & quality warranty
25-year linear power output warranty



Shine Solar linear power output guarantee
Industry standard linear power output guarantee



Product Certification



Electrical Characteristics

MODEL	SN-P20
Maximum Power/Pmax	20W
Optimum Operating Voltage/Vmp	18V
Optimum Operating Current/Imp	1.11A
Open Circuit Voltage/Voc	21.6V
Short Circuit Current/IsC	1.22A
Cell Efficiency	>19%
Module Efficiency	>17%
Power Tolerance	0~+3W
Maximum Series Fuse Rating	10A
Maximum System Voltage	1000VDC

* STC: Irradiance 1000W/m², Cell Temperature 25°C, AM 1.5

Mechanical Characteristics

Number of cells	36(18*2)
Cell Dimension	157*19.63mm
Dimension	470*345*25mm
Weight	2.0kg
Frame Material	Clear anodized aluminium frame
Glass	3.2mm tempered glass
Laminating Material	EVA (Light transmittance more than 95%)
Backsheet Material	TPT (High weather resistance)
Junction Box	IP65 (1500V system voltage available)
Cable	/
Connector	/
Bus Bar	5BB

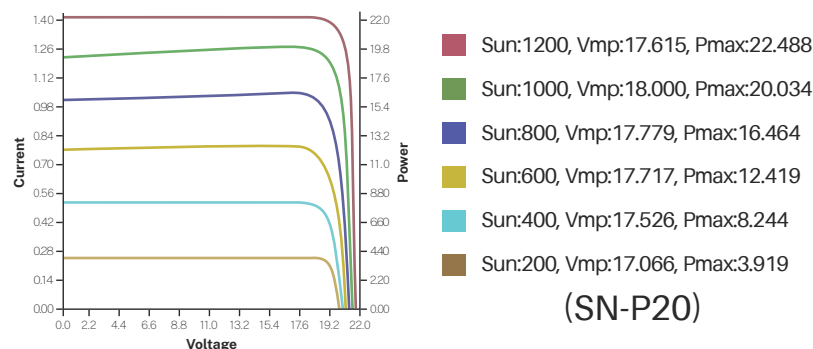
Maximum Data

Operating Temperature	-40°C to +85°C	°C
Insulation 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	5mm	80km/h

Temperature Characteristics

Nominal Operating Cell Temperature(NOTC)	45±2°C
Temperature Coefficient of Pmax	-0.37%/°C
Temperature Coefficient of Voc	-0.29%/°C
Temperature Coefficient of Isc	+0.048%/°C

I-V Curve



Caution: The Installation, Operation and cleaning should be done by professional skills and qualified engineers. Please read the datasheet and Operation manual carefully before installing and Operating the PV modules.