Invictus®
Smart products

Monocrystalline Solar PV Module

10W	0.51A	>21.8%
Power	Current	Cell Efficiency

The Main Features

High efficiency
Module efficiency leading in industry

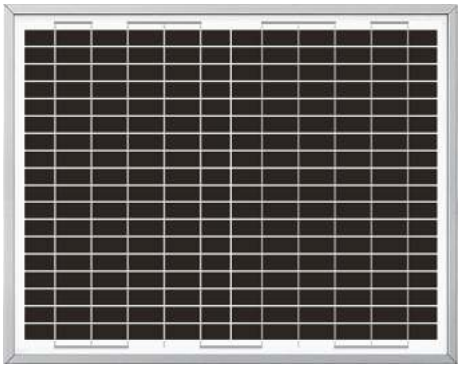
Power and tolerance
0~+3W positive power tolerance guarantee

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

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

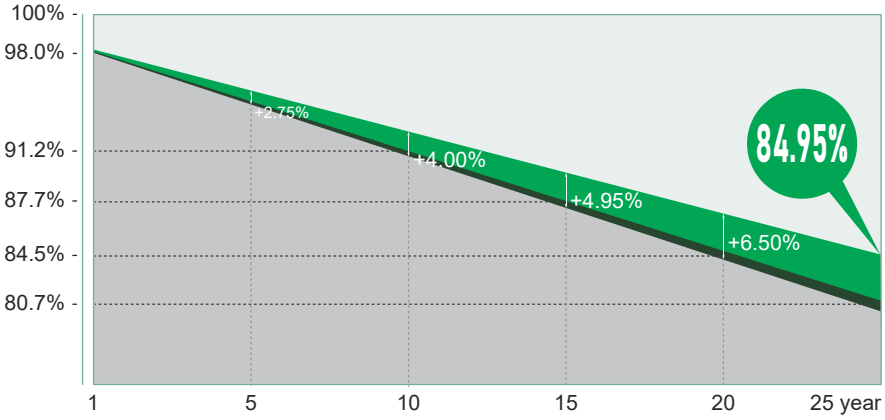
The hail test
It passed the hail test with a diameter of 45mm and a speed of 30.7m/s

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

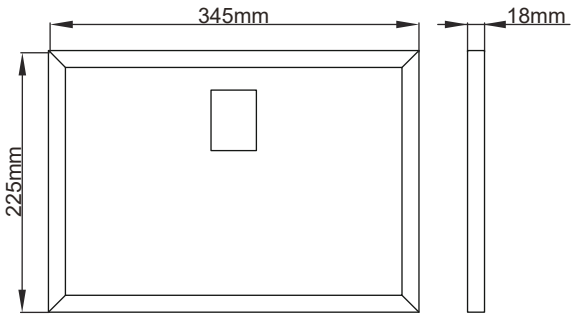


Quality Guarantee

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	SRM-10M
Maximum Power/Pmax	10W
Optimum Operating Voltage/Vmp	19.8V
Optimum Operating Current/Imp	0.51A
Open Circuit Voltage/Voc	23.76V
Short Circuit Current/Isc	0.56A
Cell Efficiency	>21.8%
Power Tolerance	0~+3W
Maximum Series Fuse Rating(A)	15A
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	78.4*17.4mm
Dimension	225*345*18mm
Weight	0.8kg
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

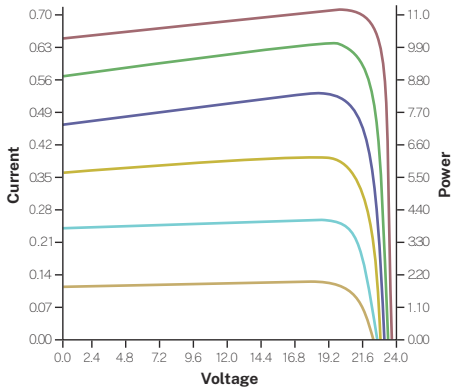
Maximum Data

Operating Temperature	-40℃ to +85℃	℃
Insulation Cut Voltage	1000	DC
Maximum Wind Resistance	60m/s	N/m² or max KM/h
Surface Maximum Load Capacity	200	Kg/m²
Maximum Hail Load Capacity	5mm	80km/h

Temperature Characteristics

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

I-V Curve



Sun:1200, Vmp:19.234, Pmax:11.346
Sun:1000, Vmp:19.800, Pmax:10.098
Sun:800, Vmp:19.629, Pmax:8.307
Sun:600, Vmp:19.561, Pmax:6.175
Sun:400, Vmp:19.395, Pmax:4.156
Sun:200, Vmp:18.745, Pmax:1.971

(SRM-10M)

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.