

### SPECIFICATIONS

	STC				NOCT			
	295W	300W	305W	310W	295W	300W	305W	310W
Rated Power (Pmax):	295W	300W	305W	310W	295W	300W	305W	310W
Maximum Power (Pmax):	295W	300W	305W	310W	215.92W	219.58W	223.24W	226.90W
Rated Voltage at Pmax (Vmp):	36.4V	36.5V	36.6V	36.7V	33.10V	33.19V	33.28V	33.37V
Rated Current at Pmax (Imp):	8.10A	8.22A	8.33A	8.45A	6.52A	6.61A	6.70A	6.79A
Open-circuit Voltage (Voc):	45.0V	45.1V	45.2V	45.3V	41.67V	41.76V	41.85V	41.95V
Short-circuit Current (Isc):	8.73A	8.81A	8.88A	8.95A	7.07A	7.13A	7.19A	7.24A
Module Efficiency (ηm):	15.2%	15.4%	15.7%	16.0%				
Maximum System Voltage:	1000VDC (IEC), 600VDC (UL)							
Application Class:	Class A							
Fire Resistance Class:	Class C (UL)							
Maximum Over-Current Rating:	16A (IEC), 15A (UL)							
Operating Temperature:	85% Rh, -40°C ~ +85°C (IEC), -40°C ~ +90°C (UL)							
Maximum Snow Loads (front):	5400Pa							
Maximum Wind Loads (front & back):	2400Pa							
Maximum Hailstone Impact (diameter @ 23m/s):	25mm							

- STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, Air mass AM1.5 according to EN60904-3.
- NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C/s, wind Speed 1m/s.
- Average efficiency reduction of 4.5% at 200W/m<sup>2</sup> according to EN60904-1.

### Thermal Characteristics:

Nominal Operating Cell Temperature (NOCT): 46 ± 2°C

Temperature Coefficient of Pmax (γ Pmp): -0.41%/°C

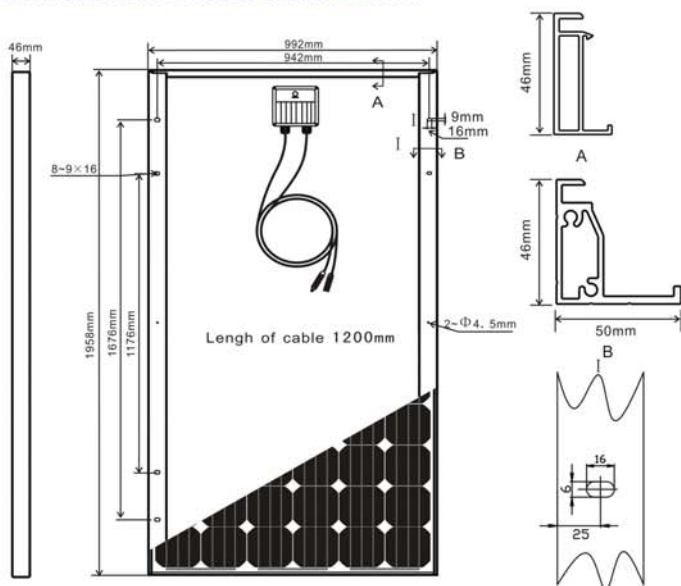
Temperature Coefficient of Voc (β Voc): -0.31%/°C

Temperature Coefficient of Isc (α Isc): +0.045%/°C

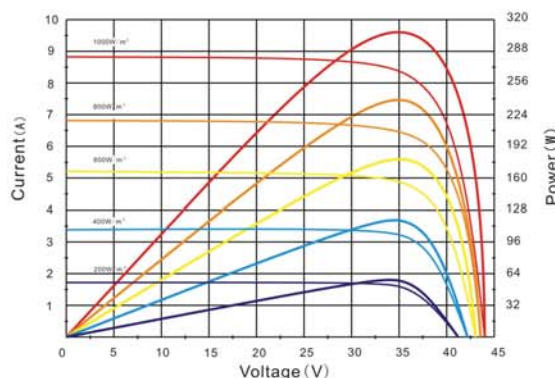
### Construction Characteristics:

Front Cover :	low-iron tempered glass/3.2mm
Cell:	72 pcs mono-crystalline 156×156mm
Frame :	anodized aluminum alloy/silver
Junction Box (protection degree):	IP65
Cable (length/cross-sectional area):	1200mm/4mm <sup>2</sup>
Connector ( protection degree):	IP65
Module Dimension (L×W×H):	1958×992×46mm
Weight:	23.5kg

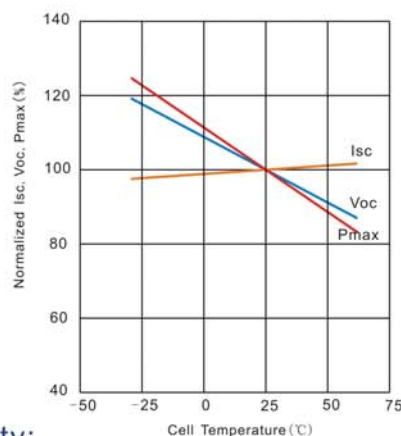
### Dimensions (tolerance ±2mm)



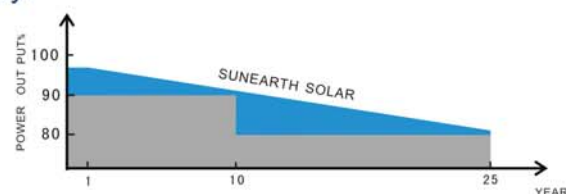
### I-V (305W)



### Temperature Dependence of Isc, Voc, Pmax



### Warranty:



Please refer to Sun Earth Solar Power Product Warranty for details.