



# Poly-Crystalline

## TPB156×156-36-P



Special attention has been given to the use of high quality components. High strength frames ensure that modules will exceed physical load requirements. Snow pressure of 5400PA and wind pressure of 2400PA are standards for Sun Earth modules.



Sun Earth as a company meets the rigorous requirement of ISO9001 Quality Management System, ISO14001 Environmental Management System and OHSAS18001 Occupation Health Safety Management System. It can guarantee Sun Earth has strict and efficient management and manufacturing environment.



Each module produces positive power up to 5W greater than product rating power.



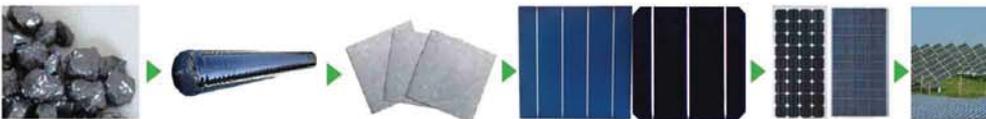
With over 30 years experience in manufacturing solar modules, Sun Earth has the experience and advanced technology to produce modules with 15% plus efficiency. High performance in low light conditions ensures the maximum available energy production.



Sun Earth modules are certified by all major authorities, like TÜV, UL, VDE, MCS, JET, CEC and others.



Sun Earth modules carry a 10 year workmanship limited warranty and a 25 year linear performance limited warranty. Sun Earth Solar Power Co., Ltd. is a company with proven worldwide performance and trusted by all.



The completed production line of Sun Earth profoundly ensures the quality of Sun Earth products and the competition advantage of the company.



### SPECIFICATIONS

	STC			NOCT		
	150W	155W	160W	150W	155W	160W
Rated Power (Pmax):	150W	155W	160W	150W	155W	160W
Maximum Power (Pmax):	150W	155W	160W	109.54W	113.19W	116.84W
Rated Voltage at Pmax (Vmp):	18.2V	18.3V	18.4V	16.51V	16.60V	16.69V
Rated Current at Pmax (Imp):	8.24A	8.47A	8.70A	6.63A	6.81A	6.99A
Open-circuit Voltage (Voc):	22.6V	22.7V	22.8V	20.88V	20.97V	21.06V
Short-circuit Current (Isc):	8.83A	8.98A	9.12A	7.15A	7.28A	7.39A
Module Efficiency (ηm):	15.0%	15.5%	16.0%			
Maximum System Voltage:	1000VDC					
Application Class:	Class A					
Fire Resistance Class:	Class C					
Maximum Over-Current Rating:	16A					
Operating Temperature:	85% Rh, -40°C ~ +85°C					
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): -0.42%/°C

Temperature Coefficient of Voc (β Voc): -0.32%/°C

Temperature Coefficient of Isc (α Isc): +0.05%/°C

### Construction Characteristics:

Front Cover: low-iron tempered glass/3.2mm

Cell: 36 pcs poly-crystalline 156×156mm

Frame: anodized aluminum alloy/silver

Junction Box (protection degree): IP67

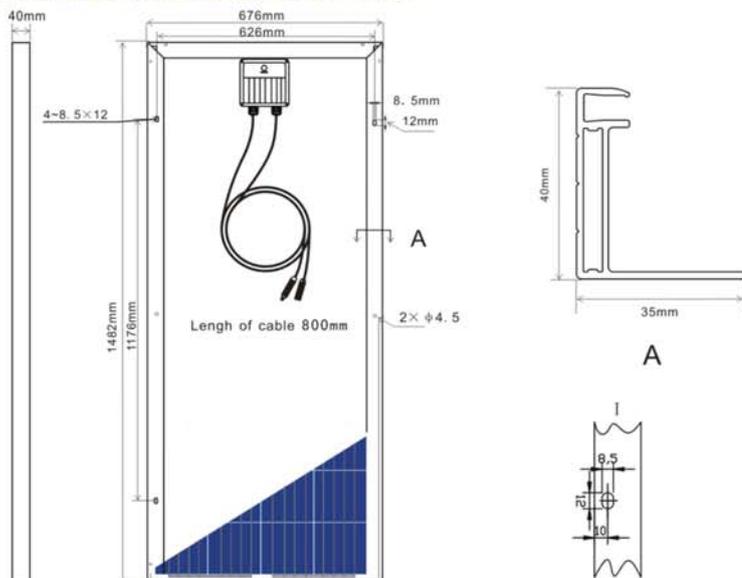
Cable (length/cross-sectional area): 800mm/4mm<sup>2</sup>

Connector (protection degree): IP67

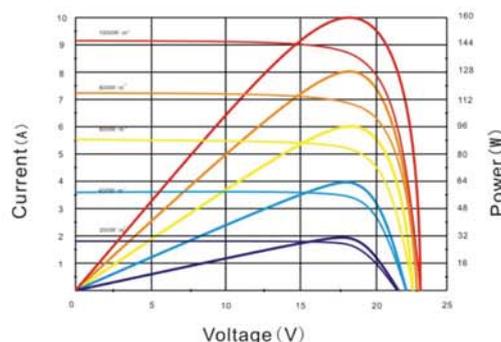
Module Dimension (L×W×H): 1482×676×40mm

Weight: 12.0±3% kg

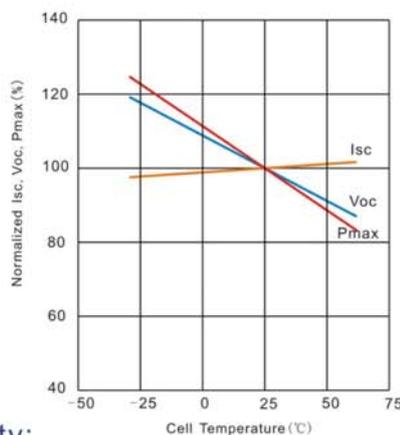
### Dimensions (tolerance ±2mm)



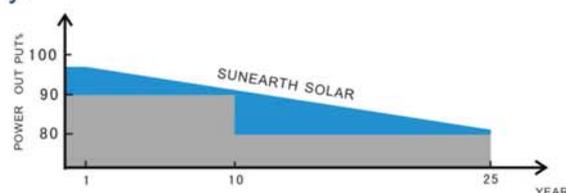
### I-V (160W)



### Temperature Dependence of Isc, Voc, Pmax



### Warranty:



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

