



Mono-Crystalline

TDB125×125-36-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.



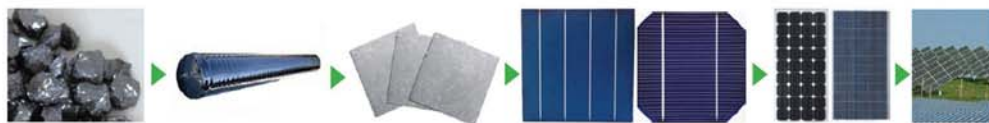
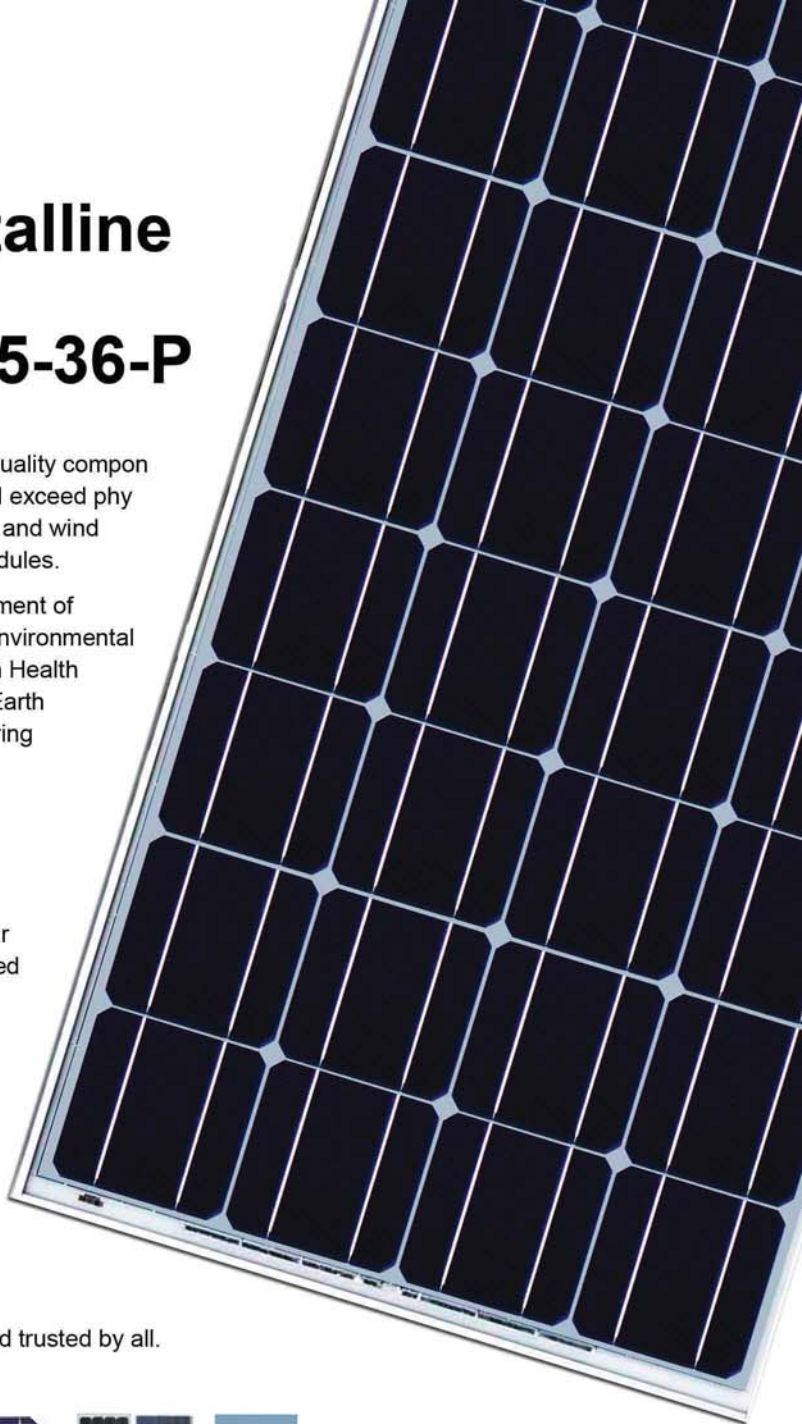
With over 30 years experience in manufacturing solar modules, Sun Earth has the experience and advanced technology to produce modules with 15% plus efficiency. High performance in low light conditions ensures the maximum available energy production.



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		
Rated Power (Pmax):	100W	105W	110W	100W	105W	110W
Maximum Power (Pmax):	100W	105W	110W	73.19W	76.85W	80.51W
Rated Voltage at Pmax (Vmp):	18.5V	18.7V	18.9V	16.82V	17.01V	17.19V
Rated Current at Pmax (Imp):	5.41A	5.61A	5.82A	4.35A	4.52A	4.68A
Open-circuit Voltage (Voc):	22.7V	22.9V	23.1V	21.02V	21.20V	21.39V
Short-circuit Current (Isc):	5.75A	5.90A	6.05A	4.65A	4.78A	4.90A
Module Efficiency (η_m):	15.2%	16.0%	16.7%			
Maximum System Voltage:	1000VDC					
Application Class:	Class A					
Fire Resistance Class:	Class C					
Maximum Over-Current Rating:	10A					
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/m², Cell temperature 25°C, Air mass AM1.5 according to EN60904-3.
- NOCT: Irradiance 800W/m², Ambient temperature 20°C/s, wind Speed 1m/s.
- Average efficiency reduction of 4.5% at 200W/m² according to EN60904-1.

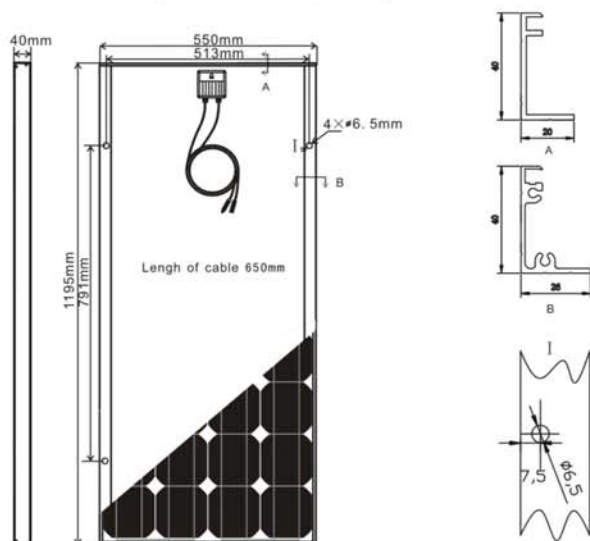
Thermal Characteristics:

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

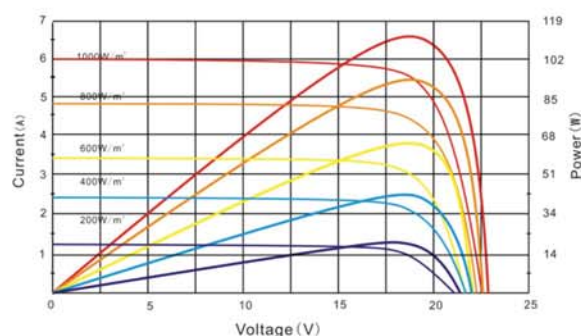
Construction Characteristics:

Front Cover:	low-iron tempered glass/3.2mm
Cell:	36 pcs mono-crystalline 125×125mm
Frame:	anodized aluminum alloy/silver
Junction Box (protection degree):	IP65
Cable (length/cross-sectional area):	650mm/4mm ²
Connector (protection degree):	IP65
Module Dimension (L×W×H):	1195×550×40mm
Weight:	8.0±3% kg

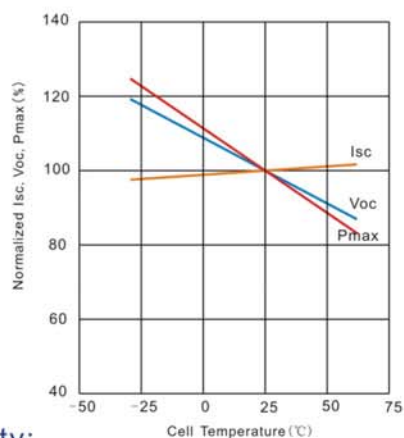
Dimensions (tolerance ±2mm)



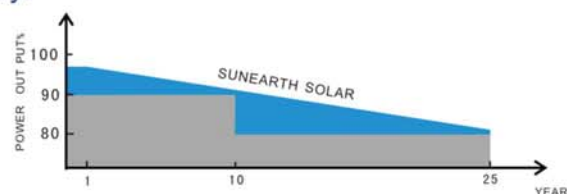
I-V (110W)



Temperature Dependence of Isc, Voc, Pmax



Warranty:



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