



Sun-Earth

Poly-Crystalline

TPB50-36-P1 50W

Electrical Characteristics at Standard Test Conditions (STC):

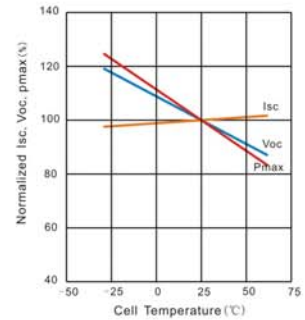
Maximum Power (Pmax):	50W
Power Tolerance:	0~+5W
Rated Voltage at Pmax (Vmp):	18.2V
Rated Current at Pmax (Imp):	2.75A
Open-circuit Voltage (Voc):	22.5V
Short-circuit Current (Isc):	2.98A
Module Efficiency (ηm):	13.8%

• STC: Irradiance 1000W/m²; Cell temperature 25°C, Air mass AM1.5 according to EN60904-3.

Temperature Dependence of Isc, Voc, Pmax:

Thermal Characteristics:

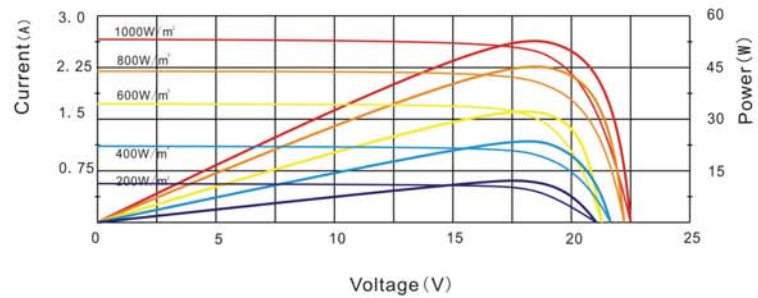
Nominal Operating Cell Temperature (NOCT):	46±2°C
Temperature Coefficient of Pmax (γ Pmp):	-0.42%/°C
Temperature Coefficient of Voc (β Voc):	-0.32%/°C
Temperature Coefficient of Isc (α Isc):	+0.05%/°C



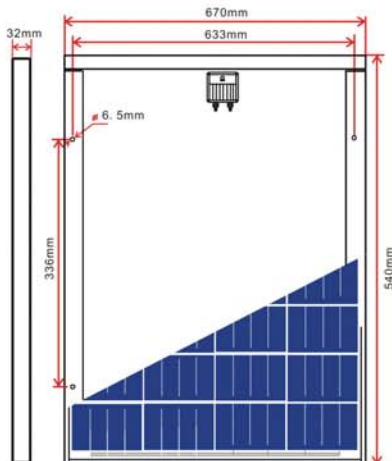
Construction Characteristics:

Front Cover :	low-iron tempered glass/3.2mm
Cell:	36 pcs poly-crystalline 156×52mm
Frame :	anodized aluminum alloy/silver
Module Dimension (L×W×H):	540×670×32mm
Weight:	4.9kg

I-V (50W)



Dimensions (tolerance ±2mm)



Rating Characteristics:

Maximum System Voltage:	600VDC
Application Class:	Class A
Maximum Over-Current Rating:	5A
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

