

## STP6-XXX/48 Series

STP6-200W, STP6-195W, STP6-190W, STP6-185W,  
STP6-180W, STP6-175W



- I. GLASS
- II, IV. EVA
- III. CELL
- V. BACKSHEET
- VI. FRAME
- VII. JUNCTION BOX

Polycrystalline  
photovoltaic  
Module



Three-Busbar Cell



### I GLASS

- High light transmission giving more electricity
- Excellent mechanical loading performance (5400Pascal)
- SPF-UL certified

### II IV EVA

- High light transmission assuring better power performance
- High GEL and peeling strength guarantying strong encapsulation
- Good ultraviolet aging resistance
- TUV/UL certified

### III CELL

- Excellent efficiency and long term reliability
- Good performance under high temperature and low irradiance conditions
- 100% In-Line Electroluminescence(EL) tested
- Positive tolerance for each panel
- TUV/UL

### V BACKSHEET

- TEDLAR based encapsulation and protection
- Good aging resistance guarantying strong durability performance
- Excellent adhesion and ultraviolet stability
- TUV/UL certified

### VI FRAME

- Anodized/Electrophoretic aluminum means durable protection from environment
- Unique designed profile ensuring strong mechanical loading performance
- Silver/Black color available

### VII JUNCTION BOX

- Reliable by-pass diodes assuring good product protection
- Locking connector working compatible worldwide
- Excellent heat emission performance
- IP65 or IP67 protection
- TUV/UL certified



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#### Temperature dependence of Isc Voc and Pmax

Irradiance dependence of Isc Voc and Pmax  
(cell temperature:25°C)



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## Electrical Characteristics

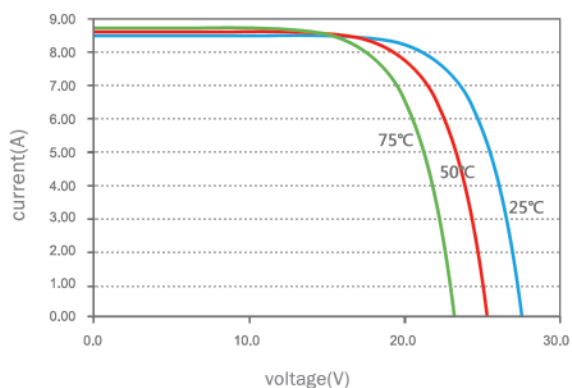
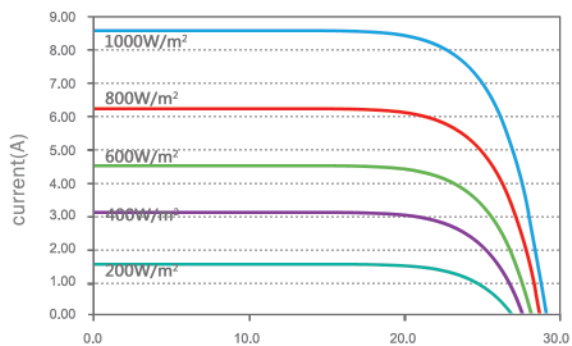
Module Type	Unit	STP6-200/48	STP6-195/48	STP6-190/48	STP6-185/48	STP6-180/48	STP6-175/48
Rated Power at STC (Pmp)	W	200	195	190	185	180	175
Power Tolerance	W	+3	+3	+3	+3	+3	+3
Power Maximum at STC	W	203	198	193	188	183	178
Cell Efficiency ( $\eta_c$ )	%	17.60	17.20	16.70	16.30	15.80	15.40
Minimum Module Efficiency ( $\eta_m$ )	%	15.30	15.00	14.60	14.20	13.80	13.41
Open Circuit Voltage (Voc)	V	29.80	29.72	29.62	29.48	29.40	29.32
Short Circuit Current (Isc)	A	8.94	8.77	8.56	8.38	8.18	7.96
Maximum Power Voltage (Vmp)	V	24.04	23.99	23.90	23.81	23.72	23.65
Maximum Power Current (Imp)	A	8.32	8.13	7.95	7.77	7.59	7.40
Maximum System Voltage	V	1000 (TUV), 600 (UL)					
Maximum Series Fuse Rating	A	15					

STC: Irradiance 1000W/m<sup>2</sup>, module temperature 25°C, AM=1.5; Power measurement tolerance: +/-3%

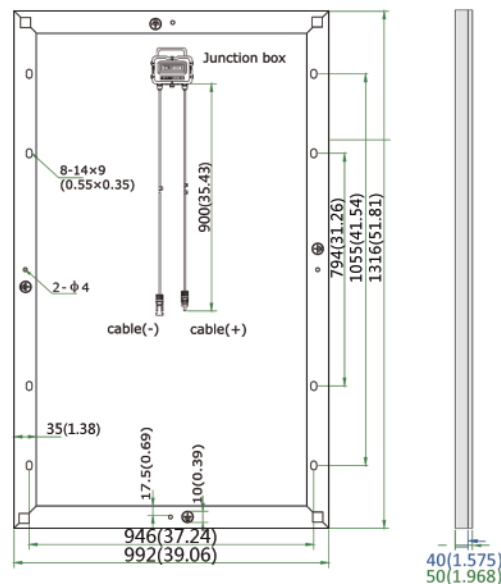
## Temperature Characteristics

Pmax Temperature Coefficient	%/°C	-0.44
Voc Temperature Coefficient	%/°C	-0.33
Isc Temperature Coefficient	%/°C	+0.055
Operating Temperature	°C	-40 ~ +85
Nominal Operating Cell Temperature (NOCT)	°C	45±2

## Current-Voltage & Power-Voltage Curve (STP6-190/48)



### Dealer information:



- All Dimensions in mm (inch)
- The above drawing is a graphical representation of the product. For engineering quality drawings please contact **SCHUTTEN**

## Mechanical Specifications

External Dimensions	1316 × 992 × 50 mm
Weight	15.3kg
Solar Cells	Polycrystalline 156 × 156mm (48pcs)
Front glass	3.2 mm tempered glass, low iron
Frame	Anodized/ Electrophoretic aluminum alloy
Junction Box	IP65 /IP67
Output Cables	4.0 mm <sup>2</sup> , symmetrical lengths 900mm
Connector	MC4 Compatible
Maximum Snow Load	550kg/m <sup>2</sup>
Maximum Wind Load	200km/h
Hailstone Impact Test	80km/h for 25mm ice ball

