

## STP6-XXX/72 Series

STP6-300W, STP6-295W, STP6-290W, STP6-285W  
STP6-280W



- 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  $I_{sc}$   $V_{oc}$  and  $P_{max}$   
Irradiance dependence of  $I_{sc}$   $V_{oc}$  and  $P_{max}$   
(cell temperature: 25°C)



# STP6-XXX/72 Series

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## Electrical Characteristics

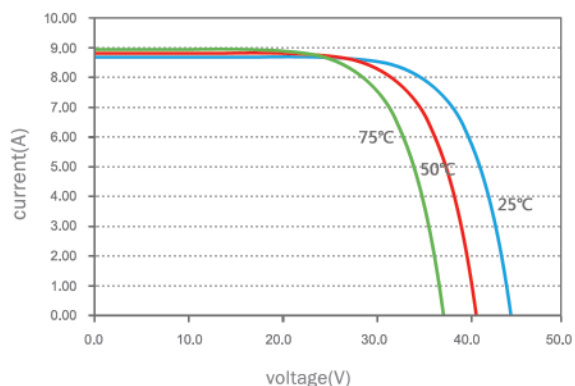
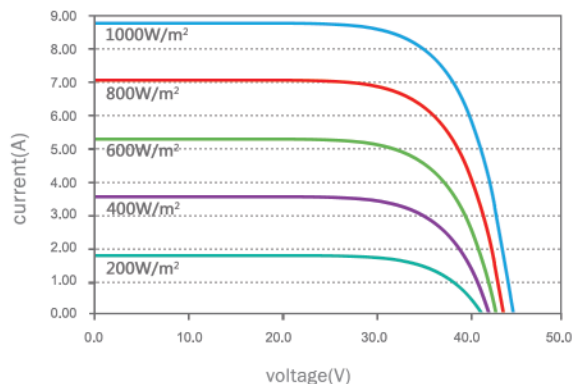
Module Type	Unit	STP6-300/72	STP6-295/72	STP6-290/72	STP6-285/72	STP6-280/72
Rated Power at STC (Pmp)	W	300	295	290	285	280
Power Tolerance	W	±3%	(0, +5)	(0, +5)	(0, +5)	(0, +5)
Power Maximum at STC	W	303	298	293	288	283
Cell Efficiency (ηc)	%	17.7-17.9	17.4-17.7	17.1-17.4	16.8-17.1	16.5-16.8
Minimum Module Efficiency (ηm)	%	15.5-15.7	15.2-15.5	14.9-15.2	14.7-14.9	14.5-14.7
Open Circuit Voltage (Voc)	V	44.5	44.4	44.3	44.2	44.1
Short Circuit Current (Isc)	A	8.92	8.78	8.65	8.53	8.41
Maximum Power Voltage (Vmp)	V	35.9	35.9	35.8	35.7	35.6
Maximum Power Current (Imp)	A	8.35	8.22	8.10	7.99	7.89
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;

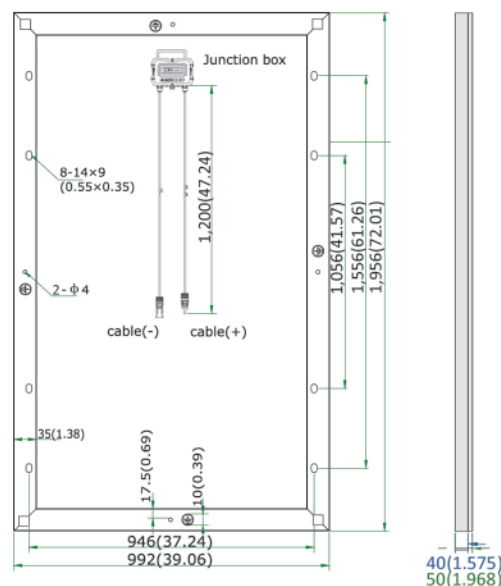
## Temperature Characteristics

Pmax Temperature Coefficient	%/°C	-0.47
Voc Temperature Coefficient	%/°C	-0.32
Isc Temperature Coefficient	%/°C	+0.04
Operating Temperature	°C	-40 ~ +85
Nominal Operating Cell Temperature (NOCT)	°C	45±2

## Current-Voltage & Power-Voltage Curve (STP6-295/72)



### 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	1956 × 992 × 50 mm
Weight	24kg
Solar Cells	Polycrystalline 156 × 156mm (72pcs)
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

