

STP6-XXX/72 Series

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

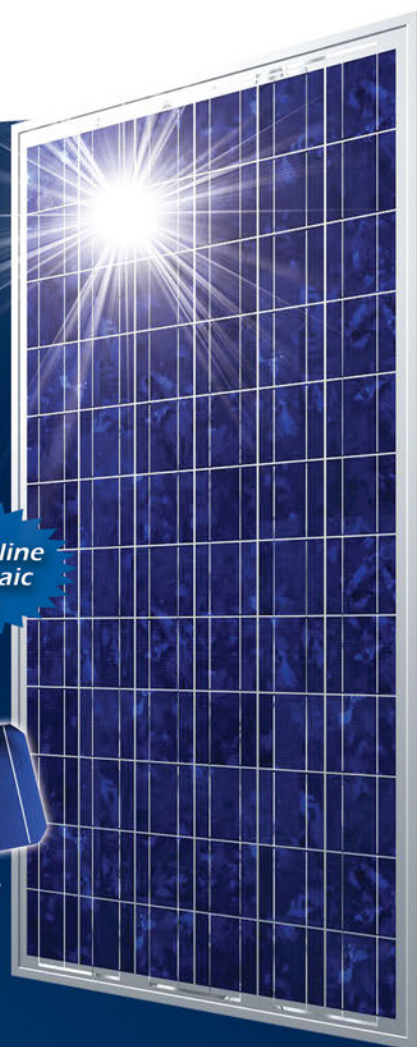


- I. GLASS
- II, IV. EVA
- III. CELL
- V. BACKSHEET
- VI. FRAME
- VII. JUNCTION BOX

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



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Electrical Characteristics

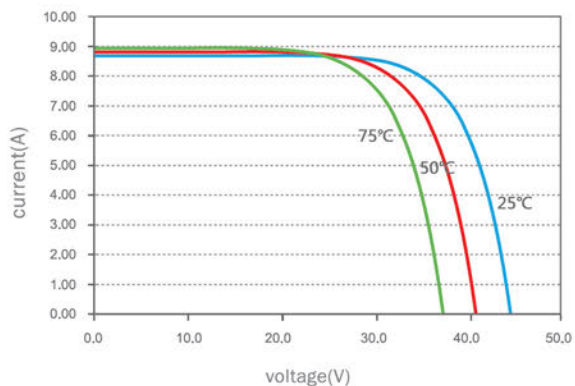
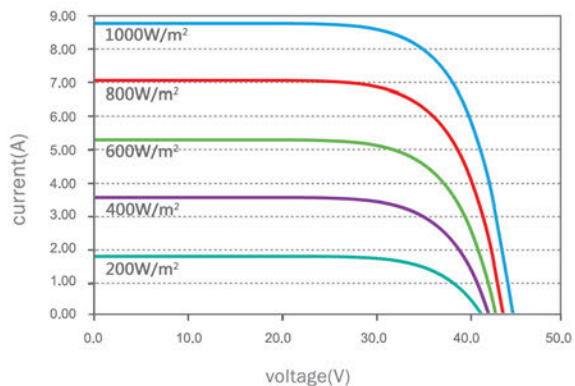
| Module Type | Unit | STP6-300/72 | STP6-295/72 | STP6-290/72 | STP6-285/72 | STP6-280/72 |
|--------------------------------|------|----------------------|-------------|-------------|-------------|-------------|
| Rated Power at STC (Pmp) | W | 300 | 295 | 290 | 285 | 280 |
| Power Tolerance | W | ±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 |
| 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 |
| 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 System Voltage | V | 1000 (TUV), 600 (UL) | | | | |
| Maximum Series Fuse Rating | A | 15 | | | | |

STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5;

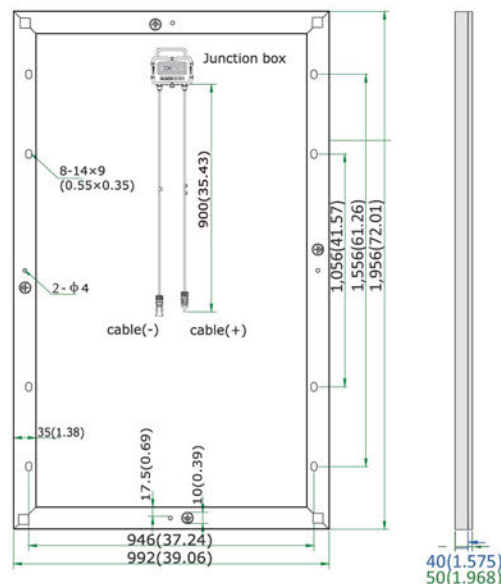
Temperature Characteristics

| | | |
|---|------|-----------|
| 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 ² , symmetrical lengths 900mm |
| Connector | MC4 Compatible |
| Maximum Snow Load | 550kg/m ² |
| Maximum Wind Load | 200km/h |
| Hailstone Impact Test | 80km/h for 25mm ice ball |

