

STP6-XXX/36

STP6-125/36 STP6-130/36 STP6-135/36
STP6-140/36 STP6-145/36 STP6-150/36

Polycrystalline Photovoltaic Module



High Efficiency

- Solder-coatingless cells
- Fine Grid Electrodes
- BSF (Back Surface Field) Structure
- Anti-Reflective Coating
- Back Film Reflected Light
- High-Transmittance Glass
- High Power Output in Actual Use

High Reliability

- Original derating designing concept
- Straight Tabs
- Double-Sided Independent Tabs
- Reliable Bus Bar
- High-Corrosion resistance of Frame
- High Tensile Strength Structure
- Hollow-less Structure Frame
- Tempered Glass
- Triple-Layer Structure Back Film

High Safety

- Triple-Layer Structure Junction Box
- Highly Reliable Bypass Diode
- Lock Mechanism Equipped Connectors
- Conformity with IEC 61215, IEC61730 standard
- Insurance by CHUBB

Eco-Friendly

- Lead-free solder PV module
- Manufactured in the plant certified ISO14001
- Recyclable steel pallets

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STP6-XXX/36

SPECIFICATIONS

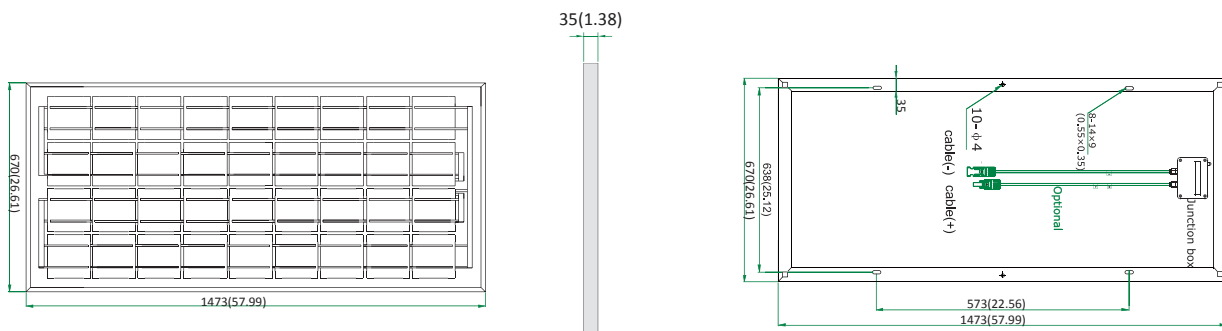
Note: the specifications are obtained under the Standard Test Conditions (STCs): 1000 W/m² solar irradiance, 1,5 Air Mass, and cell temperature of 25 C.

Model type	STP6-150/36	STP6-145/36	STP6-140/36	STP6-135/36	STP6-130/36	STP6-125/36
Cell Efficiency	17.9%	17.3%	16.7%	16.1%	15.5%	14.9%
Module Efficiency	16.0%	15.4%	14.9%	14.4%	13.8%	13.3%
Peak power (Pmax)	150W	145W	140W	135W	130W	125W
Maximum power voltage (Vmp)	17.85V	17.80V	17.60V	17.60V	17.41V	17.25V
Maximum power current (Imp)	8.30A	8.15A	7.95A	7.67A	7.47A	7.28A
Open circuit voltage (Voc)		21.96V	21.96V	21.96v	21.75V	21.64V
Short circuit current (Isc)	8.51A	8.50A	8.41A	8.41A	8.10A	8.03A
Power Tolerance	±3%	±3%	0 to +5W	0 to +5W	0 to +5W	0 to +5W

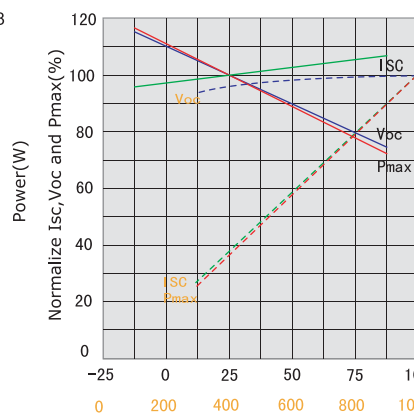
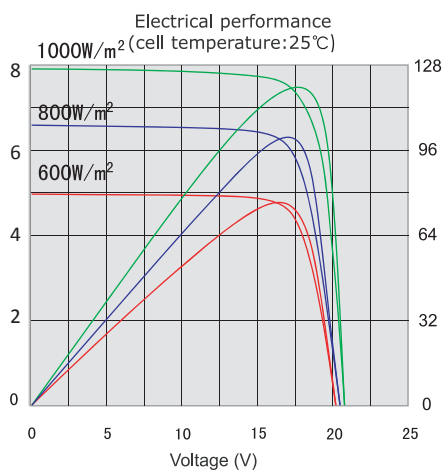
Maximum system voltage	DC 1000V
Temp. Coeff. of Isc (TK Isc)	0.065 %/°C
Temp. Coeff. of Voc (TK Voc)	-0.346 %/°C
Temp. Coeff. of Pmax (TK Pmax)	-0.488 %/°C
Normal Operating Cell Temperature	45.3 ±2°C

Cell type	PolyCrystalline Silicon, 156mm x 156mm
Number of cells	36 cells in series
Weight	12 kg (26.5 lbs)
Dimensions	1473 x 670 x 35 mm

PHYSICAL CHARACTERISTICS Unit:mm (inch)

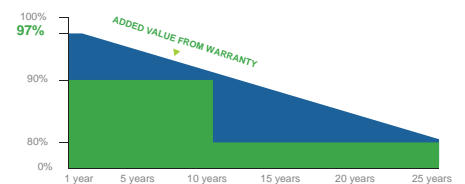


ELECTRICAL CHARACTERISTICS



Temperature dependence of Isc, Voc and Pmax

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



Cell Temperature (°C)

Irradiance (W/m²)