# STP385S - 72/Vfh
# STP380S - 72/Vfh
# STP375S - 72/Vfh

SUNTECH

## 385 Watt
## MONO HALF CELL SOLAR MODULE



### Features

**High power output**
Compared to normal module, the power output can increase 5W-10W

**High PID resistant**
Advanced cell technology and qualified materials lead to high resistance to PID

**Excellent weak light performance**
More power output in weak light condition, such as haze, cloudy, and morning

**Lower hot spots**
Reduce the hot spots and minimize panel degradation

**Extended load tests**
Module certified to withstand front side maximum static test load (5400 Pascal) and rear side maximum static test loads (3800 Pascal) *

**Withstanding harsh environment**
Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

*Certifications and standards:*
*IEC 61215, IEC 61730, conformity to CE*

### Trust Suntech to Deliver Reliable Performance Over Time

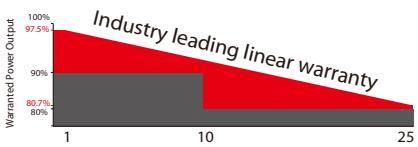
- World-class manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001: 2008, ISO 14001: 2004 and ISO17025: 2005
- Regular independently checked production process from international accredited institute/company
- Tested for harsh environments (salt mist, ammonia corrosion and sand blowing testing: IEC 61701, IEC 62716, DIN EN 60068-2-68)***
- Long-term reliability tests
- 2 x 100% EL inspection ensuring defect-free modules



### Special Cell Design

The unique cell design leads to reduced electrodes resistance and smaller current, thus enables higher fill factor. Meanwhile, it can reduce losses of mismatch and cell wear, and increase total reflection.

### Industry-leading Warranty based on nominal power




- 97.5% in the first year, thereafter, for years two (2) through twenty-five (25), 0.7% maximum decrease from MODULE's nominal power output per year, ending with the 80.7% in the 25th year after the defined WARRANTY STARTING DATE.****
- 12-year product warranty
- 25-year linear performance

### IP68 Rated Junction Box

IP68

The Suntech IP68 rated junction box ensures an outstanding waterproof level, supports installations in all orientations and reduces stress on the cables. High reliable performance, low resistance connectors ensure maximum output for the highest energy production.

* Please refer to Suntech Standard Module Installation Manual for details. **WEEE only for EU market.
*** Please refer to Suntech Product Near-coast Installation Manual for details. **** Please refer to Suntech Product Warranty for details.

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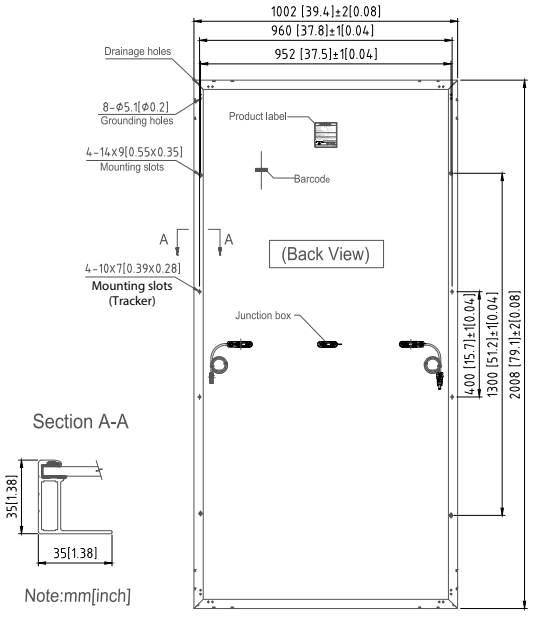



## Electrical Characteristics

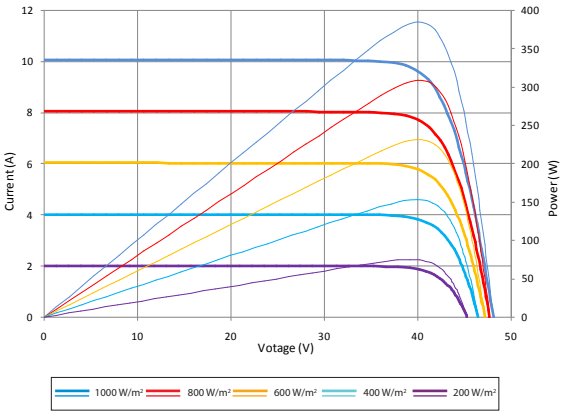
| STC | STP385S-72/Vfh | STP380S-72/Vfh | STP375S-72/Vfh |
|---|---|---|---|
| Maximum Power at STC (Pmax) | 385 W | 380 W | 375 W |
| Optimum Operating Voltage (Vmp) | 40.3 V | 40.1 V | 39.9 V |
| Optimum Operating Current (Imp) | 9.56 A | 9.48 A | 9.40 A |
| Open Circuit Voltage (Voc) | 48.1 V | 47.9 V | 47.7 V |
| Short Circuit Current (Isc) | 10.07 A | 9.99 A | 9.91 A |
| Module Efficiency | 19.1% | 18.9% | 18.6% |
| Operating Module Temperature | -40 °C to +85 °C | | |
| Maximum System Voltage | 1500 V DC (IEC) | | |
| Maximum Series Fuse Rating | 20 A | | |
| Power Tolerance | 0/+5 W | | |

STC: Irradiance 1000 W/m2, module temperature 25 °C, AM=1.5;
Tolerance of Pmax is +/- 3% and tolerances of Voc and Isc are all within +/- 5%.

| NMOT | STP385S-72/Vfh | STP380S-72/Vfh | STP375S-72/Vfh |
|---|---|---|---|
| Maximum Power at NMOT (Pmax) | 288.1 W | 284.8 W | 281.0 W |
| Optimum Operating Voltage (Vmp) | 37.2 V | 37.1 V | 36.9 V |
| Optimum Operating Current (Imp) | 7.74 A | 7.68 A | 7.62 A |
| Open Circuit Voltage (Voc) | 44.8 V | 44.7 V | 44.5 V |
| Short Circuit Current (Isc) | 8.14 A | 8.07 A | 8.01 A |

NMOT: Irradiance 800 W/m2, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s.

Current-Voltage & Power-Voltage Curve (385S)




## Temperature Characteristics

| | |
|---|---|
| Nominal Module Operating Temperature (NMOT) | 42±2°C |
| Temperature Coefficient of Pmax | -0.37%/°C |
| Temperature Coefficient of Voc | -0.304%/°C |
| Temperature Coefficient of Isc | 0.050%/°C |

## Mechanical Characteristics

| | |
|---|---|
| Solar Cell | Monocrystalline silicon 156.75 mm |
| No. of Cells | 144 (6 × 24) |
| Dimensions | 2008 × 1002 × 35 mm (79.1 × 39.4 × 1.4 inches) |
| Weight | 22.5 kgs (49.6 lbs.) |
| Front Glass | 3.2 mm (0.13 inches) tempered glass |
| Frame | Anodized aluminium alloy |
| Junction Box | IP68 rated (3 bypass diodes) |
| Output Cables | 4.0 mm², (-)350 mm and (+)160 mm in length or customized length |
| Connectors | MC4 EVO2, Cable 01S |

## Dealer information

## Packing Configuration

| Container | 20' GP | 40' HC |
|---|---|---|
| Pieces per pallet | 31 | 31 |
| Pallets per container | 5 | 22 |
| Pieces per container | 155 | 682 |

Information on how to install and operate this product is available in the installation instruction. All values indicated in this data sheet are subject to change without prior announcement. The specifications may vary slightly. All specifications are in accordance with standard EN 50380. Color differences of the modules relative to the figures as well as discolorations of/in the modules which do not impair their proper functioning are possible and do not constitute a deviation from the specification.