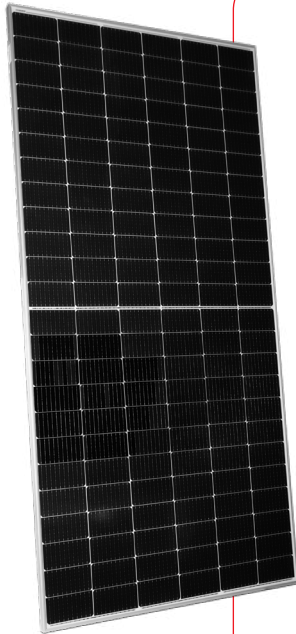


# Ultra V

144 HALF-CELL MONOFACIAL MODULE

# 530-550W

STPXXXS - C72/Vmh



## Features



### High module conversion efficiency

Module efficiency up to 21.3 % achieved through advanced cell technology and manufacturing process



### Suntech current sorting process

Up to 2 % power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output



### Excellent weak light performance

More power output in weak light condition, such as cloudy, morning and sunset



### Lower operating temperature

Lower operating temperature and temperature coefficient increases the power output



### Extended wind and snow load tests

Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 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

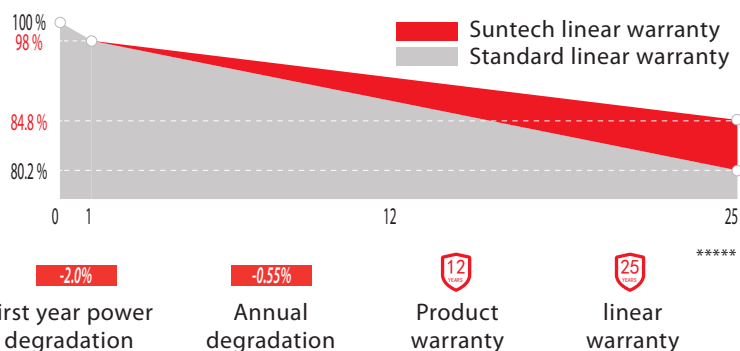
- World-class manufacturer of crystalline silicon photovoltaic modules
- Rigorous quality control meeting the highest international standards: ISO 9001, ISO 14001 and ISO17025
- Regular independently checked production process from international accredited institute/company
- Tested for harsh environments (IEC 61701, IEC 62716, DIN EN 60068-2-68) \*\*\*\*\*
- Long-term reliability tests
- 2 × 100% EL inspection ensuring defect-free modules

## Special Cell Design



MBB technology decreases the distance between bus bars and finger grid line which is benefit to power increase. Half-cell aims to eliminate the cell gap to increase module efficiency.

## Industry-leading Warranty based on nominal power



## IP68 Rated Junction Box



The Suntech IP68 rated junction box ensures an outstanding waterproof level, supports installations in all orientations and reduces stress on the cables.

\* Please refer to Suntech Standard Module Installation Manual for details. \*\* Suntech reserves the right to the final interpretation of the warranty by Munich Re.  
 \*\*\* WEEE only for EU market. \*\*\*\* Please refer to Suntech Product Near-coast Installation Guide for details.  
 \*\*\*\*\* Please refer to Suntech Limited Warranty for details.

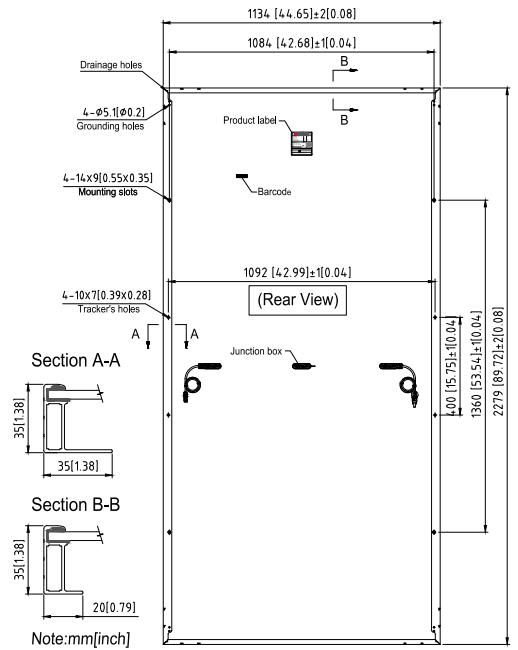
### Electrical Characteristics

| STC                             | STPXXXS-C72/Vmh  |        |        |        |        |
|---------------------------------|------------------|--------|--------|--------|--------|
| Maximum Power at STC (Pmax)     | 550W             | 545W   | 540W   | 535W   | 530W   |
| Optimum Operating Voltage (Vmp) | 42.05V           | 41.87V | 41.75V | 41.57V | 41.39V |
| Optimum Operating Current (Imp) | 13.08A           | 13.02A | 12.94A | 12.87A | 12.81A |
| Open Circuit Voltage (Voc)      | 49.88V           | 49.69V | 49.54V | 49.39V | 49.24V |
| Short Circuit Current (Isc)     | 14.01A           | 13.96A | 13.89A | 13.83A | 13.76A |
| Module Efficiency               | 21.3%            | 21.1%  | 20.9%  | 20.7%  | 20.5%  |
| Operating Module Temperature    | -40 °C to +85 °C |        |        |        |        |
| Maximum System Voltage          | 1500 V DC (IEC)  |        |        |        |        |
| Maximum Series Fuse Rating      | 25 A             |        |        |        |        |
| Power Tolerance                 | 0/+5 W           |        |        |        |        |

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5;  
Tolerance of Pmax is within +/- 3% ;  
For tracker installation, please turn to Suntech for mechanical load information.

| NMOT                            | STPXXXS-C72/Vmh |        |        |        |        |
|---------------------------------|-----------------|--------|--------|--------|--------|
| Maximum Power at NMOT (Pmax)    | 415.0W          | 411.5W | 408.0W | 404.3W | 400.6W |
| Optimum Operating Voltage (Vmp) | 38.9V           | 38.7V  | 38.6V  | 38.4V  | 38.2V  |
| Optimum Operating Current (Imp) | 10.67A          | 10.63A | 10.58A | 10.53A | 10.47A |
| Open Circuit Voltage (Voc)      | 46.9V           | 46.7V  | 46.5V  | 46.4V  | 46.3V  |
| Short Circuit Current (Isc)     | 11.22A          | 11.18A | 11.13A | 11.08A | 11.02A |

NMOT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s.



### Temperature Characteristics

|                                             |            |
|---------------------------------------------|------------|
| Nominal Module Operating Temperature (NMOT) | 42 ± 2 °C  |
| Temperature Coefficient of Pmax             | -0.36%/°C  |
| Temperature Coefficient of Voc              | -0.304%/°C |
| Temperature Coefficient of Isc              | 0.050%/°C  |

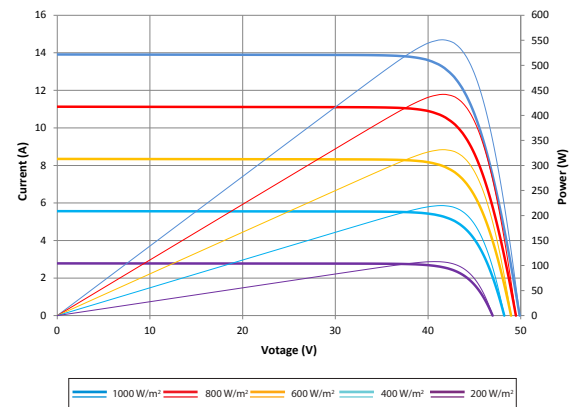
### Mechanical Characteristics

|               |                                                                                                                                                     |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Solar Cell    | Monocrystalline silicon 182 mm                                                                                                                      |
| No. of Cells  | 144 (6 × 24)                                                                                                                                        |
| Dimensions    | 2279 × 1134 × 35 mm (89.7 × 44.6 × 1.4 inches)                                                                                                      |
| Weight        | 29.1 kgs (64.2 lbs.)                                                                                                                                |
| Front Glass   | 3.2 mm (0.126 inches)                                                                                                                               |
| Frame         | Anodized aluminium alloy                                                                                                                            |
| Junction Box  | IP68 rated (3 bypass diodes)                                                                                                                        |
| Output Cables | 4.0 mm <sup>2</sup> ,<br>Portrait: (-) 350 mm and (+) 160 mm in length<br>Landscape: (-) 1 400 mm and (+) 1400 mm in length<br>or customized length |
| Connectors    | MC4 EVO2, Cable 01S                                                                                                                                 |

### Packing Configuration

|                          |                   |
|--------------------------|-------------------|
| Container                | 40' HC            |
| Pieces per pallet        | 31                |
| Pallets per container    | 20                |
| Pieces per container     | 620               |
| Packaging box dimensions | 2310×1130×1245 mm |
| Packaging box weight     | 965 kg            |

Current-Voltage & Power-Voltage Curve (550S)



### Dealer information

