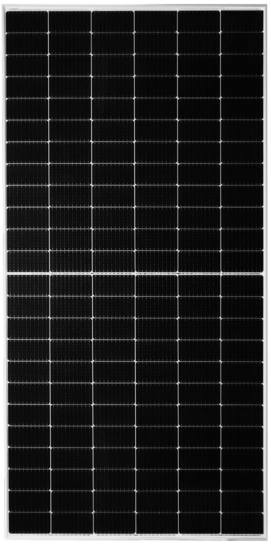
SUNTECH

# Ultra V

## HALF-CELL MONOFACIAL MODULE

TYPE: STPXXXS - C72/Vmh



| POWER OUTPUT | MAX EFFICIENCY |
|---|---|
| 530-550W | 21.3% |

## Features

### High module conversion efficiency
Module efficiency up to **21.3%** achieved through advanced cell technology and manufacturing process

### Lower operating temperature
Lower operating temperature and temperature coefficient increases the power output

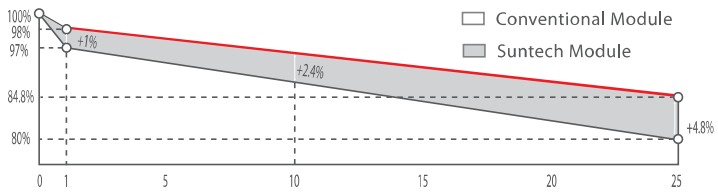
### Suntech current sorting process
Up to **2 %** power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output

### Extended wind and snow load tests
Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal) *

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

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

## Industry-leading Warranty **




- First year power degradation: 2%
- Annual degradation: 0.55%
- Product warranty: 12 years
- linear warranty: 25 years

## Certifications and Standards

CE IEC 61730 IEC 61215
SA 8000 Social Responsibility Standards
ISO 9001 Quality Management System
ISO 14001 Environment Management System
ISO 45001 Occupational Health and Safety
IEC TS 62941 Guideline for module design qualification and type approval

*** ****

Munich RE

* Please refer to Suntech Standard Module Installation Manual for details.
** Please refer to Suntech Limited Warranty for details.

*** WEEE only for EU market.
**** Suntech reserves the right to the final interpretation of the warranty by Munich Re.

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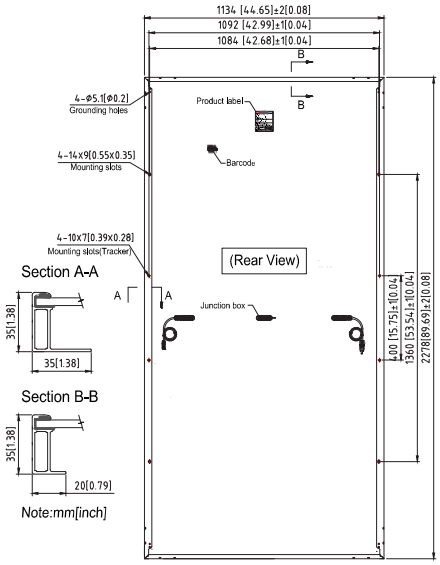
# Ultra V STPXXXS - C72/Vmh 530-550W

## Mechanical Characteristics

| | |
|---|---|
| Solar Cell | Monocrystalline silicon 182 mm |
| No. of Cells | 144 (6 × 24) |
| Dimensions | 2278 × 1134 × 35 mm<br>(89.7 × 44.6 × 1.4 inches) |
| Weight | 27.5 kgs (60.6 lbs.) |
| Front Glass | 3.2 mm (0.126 inches) fully tempered glass |
| Output Cables | 4.0 mm², <br>(-) 350 mm (+) 160 mm in length<br>or customized length |
| Junction Box | IP68 rated<br>(3 bypass diodes) |
| 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 |

For tracker installation, please turn to Suntech for mechanical load information.




## Electrical Characteristics

| Module Type | STP**550**S-C72/Vmh | | STP**545**S-C72/Vmh | | STP**540**S-C72/Vmh | | STP**535**S-C72/Vmh | | STP**530**S-C72/Vmh | |
|---|---|---|---|---|---|---|---|---|---|---|
| Testing Condition | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
| Maximum Power (Pmax/W) | 550 | 415.0 | 545 | 411.5 | 540 | 408.0 | 535 | 404.3 | 530 | 400.6 |
| Optimum Operating Voltage (Vmp/V) | 42.05 | 38.9 | 41.87 | 38.7 | 41.75 | 38.6 | 41.57 | 38.4 | 41.39 | 38.2 |
| Optimum Operating Current (Imp/A) | 13.08 | 10.67 | 13.02 | 10.63 | 12.94 | 10.58 | 12.87 | 10.53 | 12.81 | 10.47 |
| Open Circuit Voltage (Voc/V) | 49.88 | 46.9 | 49.69 | 46.7 | 49.54 | 46.5 | 49.39 | 46.4 | 49.24 | 46.3 |
| Short Circuit Current (Isc/A) | 14.01 | 11.22 | 13.96 | 11.18 | 13.89 | 11.13 | 13.83 | 11.08 | 13.76 | 11.02 |
| Module Efficiency (%) | 21.3 | | 21.1 | | 20.9 | | 20.7 | | 20.5 | |

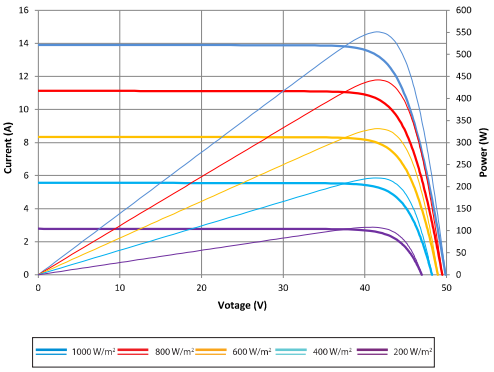
STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%;

## Temperature Characteristics

| | |
|---|---|
| Nominal Module Operating Temperature (NMOT) | 42 ± 2 °C |
| Temperature Coefficient of Pmax | -0.34%/°C |
| Temperature Coefficient of Voc | -0.26%/°C |
| Temperature Coefficient of Isc | 0.050%/°C |

## Graphs

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




## Packing Configuration

| | |
|---|---|
| Container | 40 ' HC |
| Pieces per pallet | 31 |
| Pallets per container | 20 |
| Pieces per container | 620 |
| Packaging box dimensions | 2310×1120×1255 mm |
| Packaging box weight | 902 kg |

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.