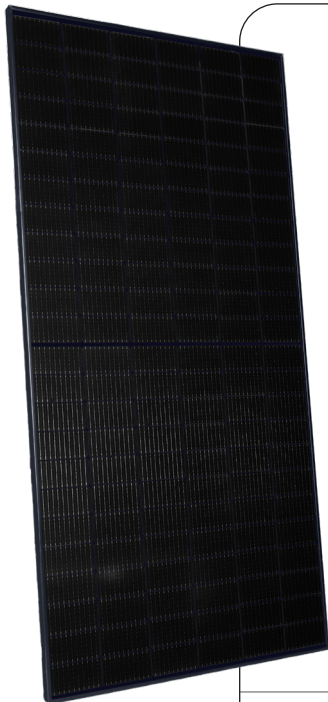


# Ultra V

144 HALF-CELL MONOFACIAL MODULE

# 520-540W

STPXXXS - C72/Vmhb



## Features



### High module conversion efficiency

Module efficiency up to 20.9 % 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

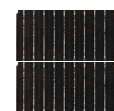
Certifications and standards:  
IEC 61215, IEC 61730, conformity to CE



## Trust Suntech to Deliver Reliable Performance Over Time

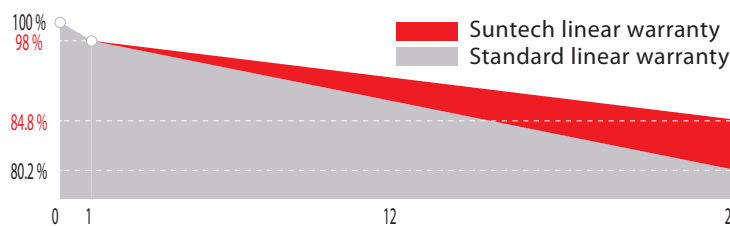
- World-class manufacturer of crystalline silicon photovoltaic modules
- Rigorous quality control meeting the highest international standards: ISO 9001, ISO 14001 and ISO17025
- Regular independently checked production process from international accredited institute/company
- Tested for harsh environments (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



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



-2.0% First year power degradation  
-0.55% Annual degradation  
12 Product warranty  
25 linear warranty

## 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.

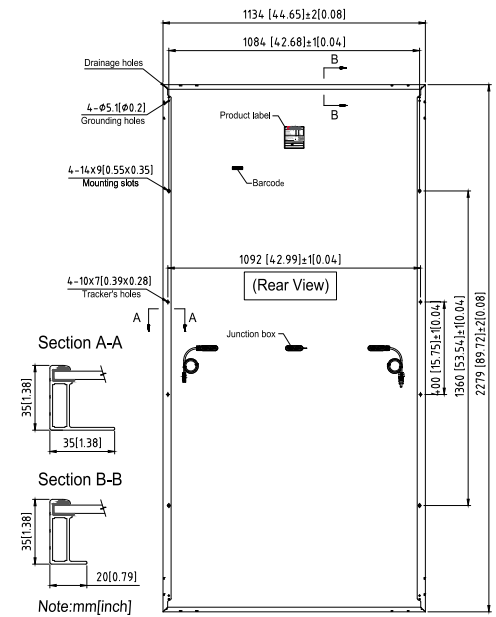
### Electrical Characteristics

STC	STPXXS-C72/Vmhb				
Maximum Power at STC (Pmax)	540W	535W	530W	525W	520W
Optimum Operating Voltage (Vmp)	41.75V	41.57V	41.39V	41.21V	41.01V
Optimum Operating Current (Imp)	12.94A	12.87A	12.81A	12.74A	12.68A
Open Circuit Voltage (Voc)	49.54V	49.39V	49.24V	49.06V	48.86V
Short Circuit Current (Isc)	13.89A	13.83A	13.76A	13.7A	13.64A
Module Efficiency	20.9%	20.7%	20.5%	20.3%	20.1%
Operating Module Temperature	-40 °C to +85 °C				
Maximum System Voltage	1000 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	STPXXS-C72/Vmhb				
Maximum Power at NMOT (Pmax)	408.0W	404.3W	400.6W	396.6W	393.0W
Optimum Operating Voltage (Vmp)	38.6V	38.4V	38.2V	38.1V	37.9V
Optimum Operating Current (Imp)	10.58A	10.53A	10.47A	10.42A	10.38A
Open Circuit Voltage (Voc)	46.5V	46.4V	46.3V	46.1V	45.9V
Short Circuit Current (Isc)	11.13A	11.08A	11.02A	10.97A	10.93A

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

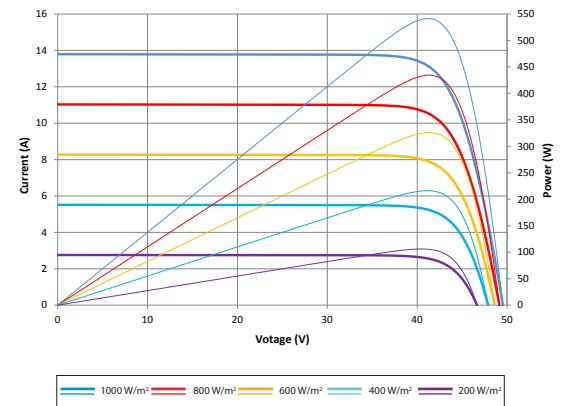
### Mechanical Characteristics

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> , Portrait: (-) 350 mm and (+) 160 mm in length Landscape: (-) 1400 mm and (+) 1400 mm in length or customized length
Connectors	MC4 compatible

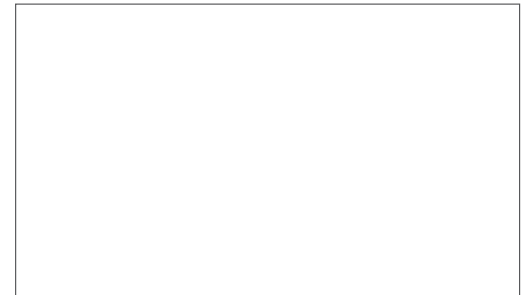
### Packing Configuration

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 (540S)



### Dealer information



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.