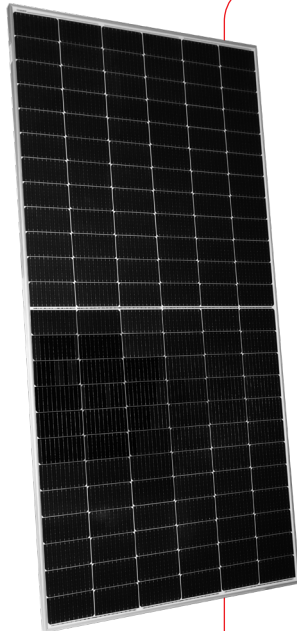


Ultra V Pro

144 HALF-CELL N-type BIFACIAL MODULE

545-565W

STPXXXS - C72/Nmh+



Features



High module conversion efficiency

Module efficiency up to 21.9 % 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

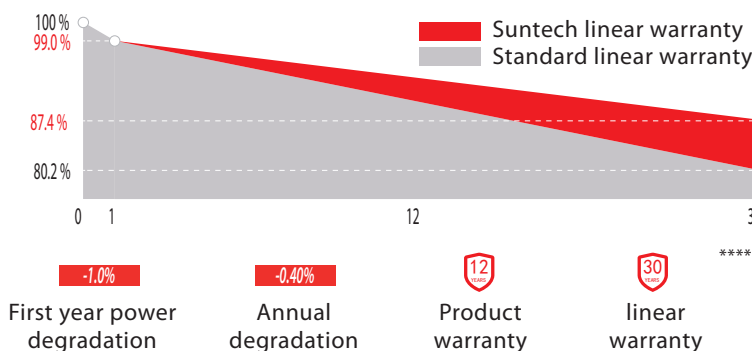
- World-class manufacturer of crystalline silicon photovoltaic modules
- Rigorous quality control meeting the highest international standards: ISO 9001, ISO 14001 and ISO17025
- Regular independently checked production process from international accredited institute/company
- Tested for harsh environments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



Half-cell and MBB technology design with ultra-thin dielectric film to isolate metal and semiconductor can achieve carrier tunneling effect to ensure carrier conduction and increase power output.

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.

** WEEE only for EU market.

*** Please refer to Suntech Product Near-coast Installation Manual for details.

**** Please refer to Suntech Product Warranty for details.

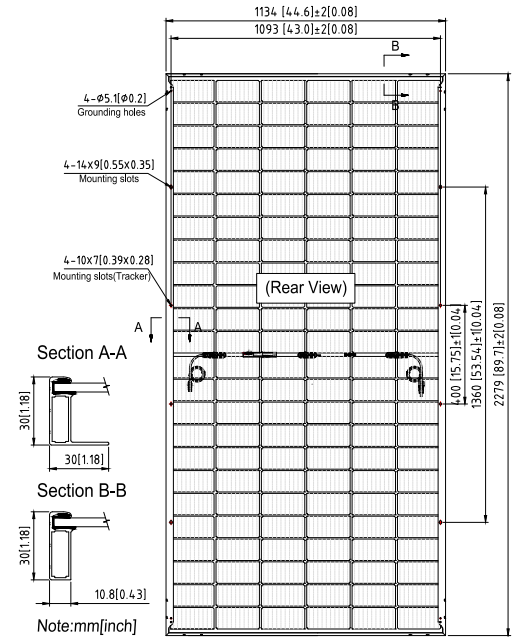
Electrical Characteristics

STC	STPXXXS-C72/Nmh+				
Maximum Power at STC (Pmax)	565W	560W	555W	550W	545W
Optimum Operating Voltage (Vmp)	42.56V	42.4V	42.24V	42.05V	41.87V
Optimum Operating Current (Imp)	13.28A	13.21A	13.14A	13.08A	13.02A
Open Circuit Voltage (Voc)	50.39V	50.23V	50.07V	49.88V	49.69V
Short Circuit Current (Isc)	14.30A	14.24A	14.17A	14.11A	14.06A
Module Efficiency	21.9%	21.7%	21.5%	21.3%	21.1%
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/m², 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/Nmh+				
Maximum Power at NMOT (Pmax)	431.3W	427.3W	423.6W	419.8W	416.2W
Optimum Operating Voltage (Vmp)	39.3V	39.2V	39.0V	38.8V	38.7V
Optimum Operating Current (Imp)	10.96A	10.91A	10.85A	10.81A	10.76A
Open Circuit Voltage (Voc)	47.7V	47.5V	47.4V	47.2V	47.0V
Short Circuit Current (Isc)	11.54A	11.49A	11.43A	11.38A	11.34A

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



Electrical Characteristics with Different Rearside Power Gain (Reference to 555 W Front)

Rearside Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	583W	638W	694W
Optimum Operating Voltage (Vmp)	42.2V	42.2V	42.3V
Optimum Operating Current (Imp)	13.80A	15.11A	16.43A
Open Circuit Voltage (Voc)	50.1V	50.1V	50.2V
Short Circuit Current (Isc)	14.88A	16.30A	17.71A
Module Efficiency	22.5%	24.7%	26.8%

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.320%/°C
Temperature Coefficient of Voc	-0.260%/°C
Temperature Coefficient of Isc	0.046%/°C

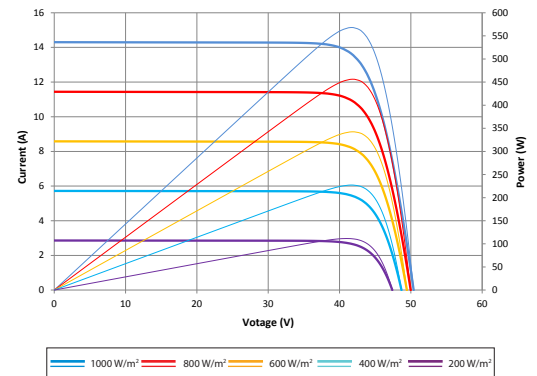
Mechanical Characteristics

Solar Cell	N-type 182 mm
No. of Cells	144 (6 × 24)
Dimensions	2279 × 1134 × 30 mm (89.7 × 44.6 × 1.2 inches)
Weight	32.8 kgs (72.3 lbs.)
Front \ Back Glass	2.0+2.0 mm (0.079+ 0.079inches) semi-tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm ² , (-) 350 mm and (+) 160 mm in length or customized length
Connectors	MC4 EVO2, Cable 01S
Refer. Bifaciality Factor	(80 ± 5) %

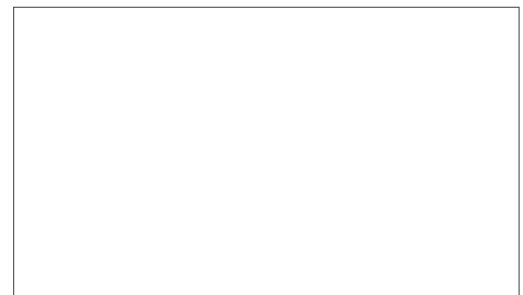
Packing Configuration

Container	40' HC
Pieces per pallet	36
Pallets per container	20
Pieces per container	720
Packaging box dimensions	2308×1130×1255 mm
Packaging box weight	1243 kg

Current-Voltage & Power-Voltage Curve (565S)



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.