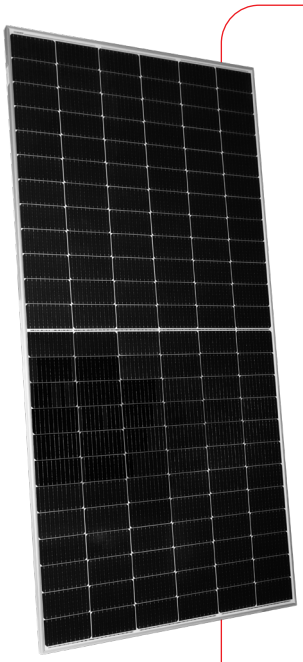
SUNTECH

Ultra V Pro

144 HALF-CELL N-type BIFACIAL MODULE

550-570W

STP*XXX*S - C72/Nmhg



Features

High module conversion efficiency
Module efficiency up to 22.1 % 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

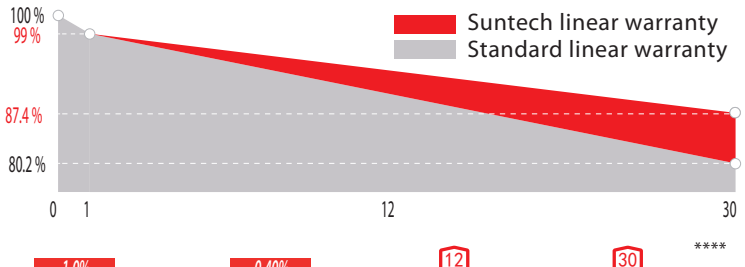
Trust Suntech to Deliver Reliable Performance Over Time

- 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

Half-cell and multi-main gate 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



-1.0%	-0.40%	12 YEARS	30 YEARS
First year power degradation	Annual degradation	Product warranty	linear warranty

Clear Tedlar ® based transparent backing

DUPONT CLEAR Tedlar

- The only backboard material with 30+ years of global outdoor validation
- Lightweight design for easy installation
- DuPont™ Tedlar® PVF fluorine film on the back panel surface, which is resistant to staining and can maintain high light transmission rate for a long time, reducing the frequency and cost of operation and maintenance
- 3.2mm fully toughened glass front panel can be used, which is more resistant to hail, hot and cold impacts

* 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.

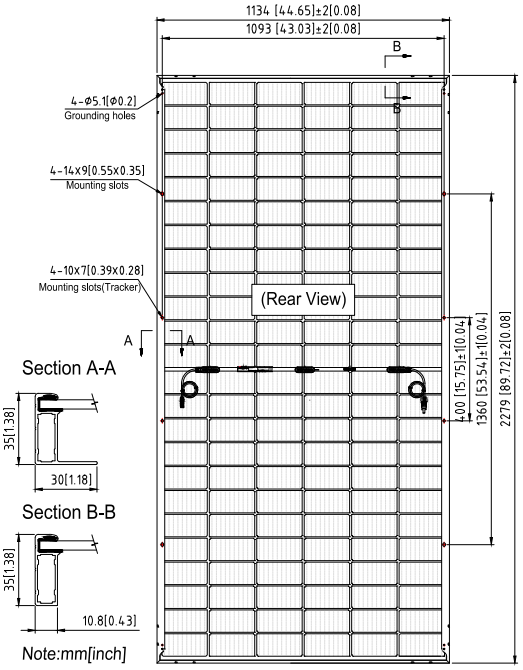
Electrical Characteristics

STC	STPXXXS-C72/Nmhg				
Maximum Power at STC (Pmax)	570W	565W	560W	555W	550W
Optimum Operating Voltage (Vmp)	42.72V	42.56V	42.4V	42.24V	42.05V
Optimum Operating Current (Imp)	13.34A	13.28A	13.21A	13.14A	13.08A
Open Circuit Voltage (Voc)	50.55V	50.39V	50.23V	50.07V	49.88V
Short Circuit Current (Isc)	14.36A	14.3A	14.24A	14.17A	14.11A
Module Efficiency	22.1%	21.9%	21.7%	21.5%	21.3%
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/Nmhg				
Maximum Power at NMOT (Pmax)	434.8W	431.3W	427.3W	423.6W	419.8W
Optimum Operating Voltage (Vmp)	39.5V	39.3V	39.2V	39.0V	38.8V
Optimum Operating Current (Imp)	11.01A	10.96A	10.91A	10.85A	10.81A
Open Circuit Voltage (Voc)	47.8V	47.7V	47.5V	47.4V	47.2V
Short Circuit Current (Isc)	11.59A	11.54A	11.49A	11.43A	11.38A

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 560 W Front)			
Rearside Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	588W	644W	700W
Optimum Operating Voltage (Vmp)	42.4V	42.4V	42.5V
Optimum Operating Current (Imp)	13.87A	15.19A	16.51A
Open Circuit Voltage (Voc)	50.2V	50.2V	50.3V
Short Circuit Current (Isc)	14.95A	16.38A	17.80A
Module Efficiency	22.8%	24.9%	27.1%

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

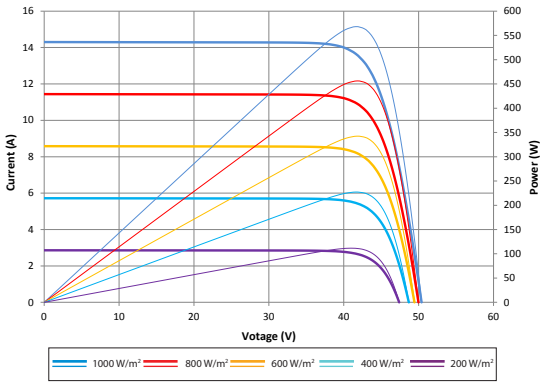
Mechanical Characteristics

Solar Cell	N-type 182 mm
No. of Cells	144 (6 × 24)
Dimensions	2279 × 1134 × 35 mm (89.7 × 44.6 × 1.4 inches)
Weight	29.1 kgs (64.2 lbs.)
Front Glass	3.2 mm (0.126 inches) fully 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
Refer. Bifaciality Factor	(80 ± 5) %

Packing Configuration

Container	40' HC
Pieces per pallet	31
Pallets per container	20
Pieces per container	620
Packaging box dimensions	2308×1130×1255 mm
Packaging box weight	950 kg

Current-Voltage & Power-Voltage Curve (570S)



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.