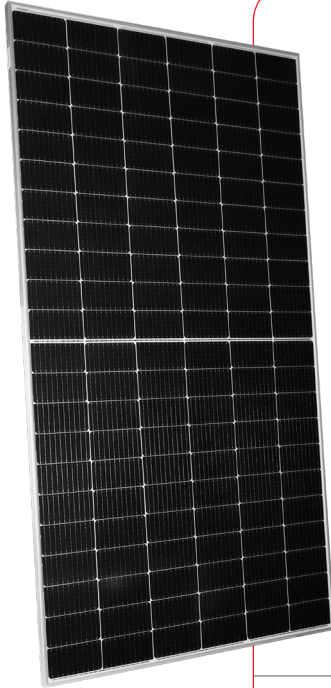


Ultra V

132 HALF-CELL MONOFACIAL MODULE

480-500W

STPXXXS - C66/Wmh



Features



High module conversion efficiency

Module efficiency up to 21.1 % 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

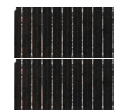
Certifications and standards:
IEC 61215, IEC 61730, conformity to CE



Trust Suntech to Deliver Reliable Performance Over Time

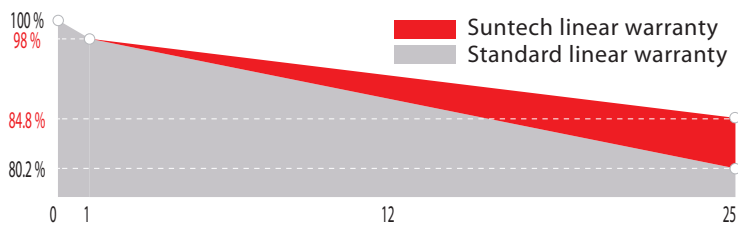
- World-class manufacturer of crystalline silicon photovoltaic modules
- Rigorous quality control meeting the highest international standards: ISO 9001, ISO 14001 and ISO17025
- Regular independently checked production process from international accredited institute/company
- Long-term reliability tests
- 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 Warranty for details. made in China & Vietnam

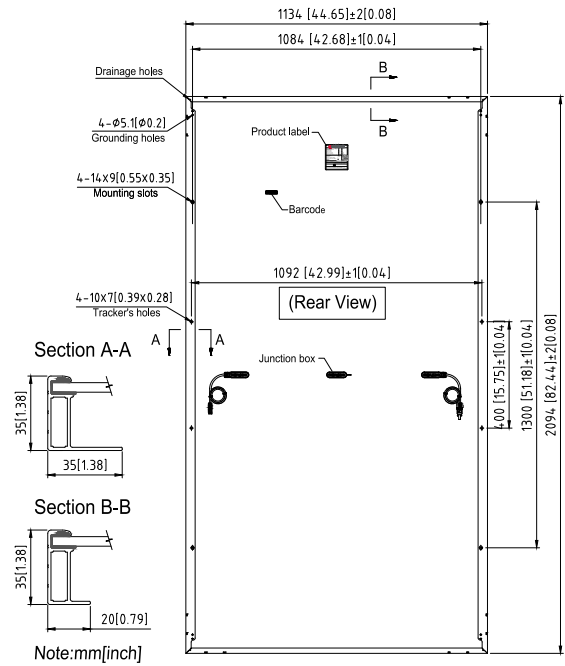
Electrical Characteristics

STC	STPXXXS-C66/Wmh				
Maximum Power at STC (Pmax)	500W	495W	490W	485W	480W
Optimum Operating Voltage (Vmp)	38.56V	38.36V	38.17V	37.98V	37.77V
Optimum Operating Current (Imp)	12.97A	12.91A	12.84A	12.77A	12.71A
Open Circuit Voltage (Voc)	45.70V	45.50V	45.31V	45.12V	44.91V
Short Circuit Current (Isc)	13.88A	13.82A	13.75A	13.68A	13.62A
Module Efficiency	21.1%	20.8%	20.6%	20.4%	20.2%
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, Voc and Isc are within +/- 5%.
For tracker installation, please turn to Suntech for mechanical load information.

NMOT	STPXXXS-C66/Vmh				
Maximum Power at NMOT (Pmax)	377.7W	374.1W	370.3W	366.4W	362.7W
Optimum Operating Voltage (Vmp)	35.6V	35.4V	35.2V	35.1V	34.9V
Optimum Operating Current (Imp)	10.61A	10.56A	10.51A	10.45A	10.40A
Open Circuit Voltage (Voc)	42.9V	42.7V	42.6V	42.4V	42.2V
Short Circuit Current (Isc)	11.16A	11.11A	11.05A	11.00A	10.95A

NMOT: Irradiance 800 W/m², 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

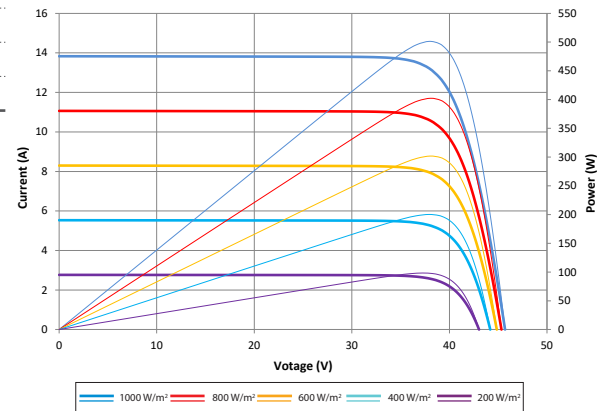
Mechanical Characteristics

Solar Cell	Monocrystalline silicon 182 mm
No. of Cells	132 (6 × 22)
Dimensions	2094 × 1134 × 35 mm (82.4 × 44.6 × 1.4 inches)
Weight	26.9 kgs (59.3 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 mm ² , Portrait: (-) 350 mm and (+) 160 mm in length or customized length
Connectors	Genuine MC4 EVO2
Fire Class Rating	C in accordance with UL 790

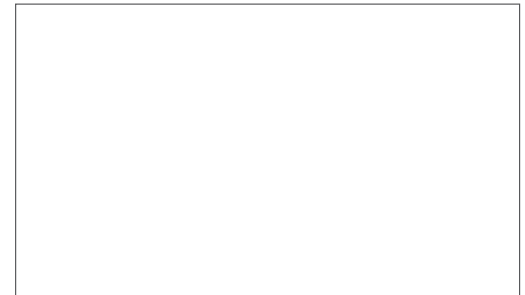
Packing Configuration

Container	40' HC
Pieces per pallet	31
Pallets per container	22
Pieces per container	682
Packaging box dimensions	2123×1130×1255 mm
Packaging box weight	875 kg

Current-Voltage & Power-Voltage Curve (500S)



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.