

Ultra V Pro mini

108 HALF-CELL N-type MONOFACIAL MODULE

410-430W

STPXXXS - C54/Umh



Features



High module conversion efficiency

Module efficiency up to 22.0% 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 (3800 Pascal) and snow loads (6000 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

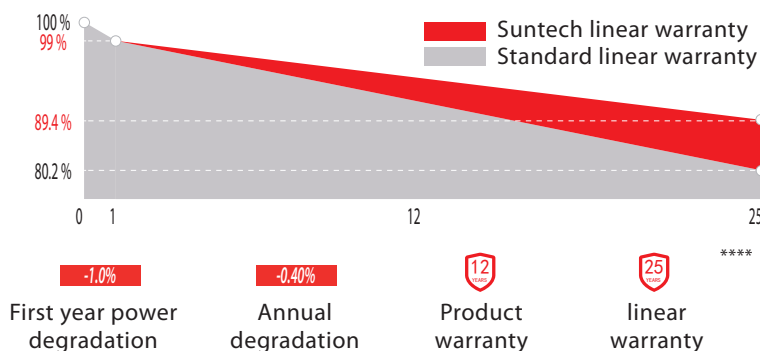
- World-class manufacturer of crystalline silicon photovoltaic modules
- Rigorous quality control meeting the highest international standards: ISO 9001, ISO 14001 and ISO17025
- Regular independently checked production process from international accredited institute/company
- Tested for harsh environments (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 Guide for details.
 **** Please refer to Suntech Limited Warranty for details.

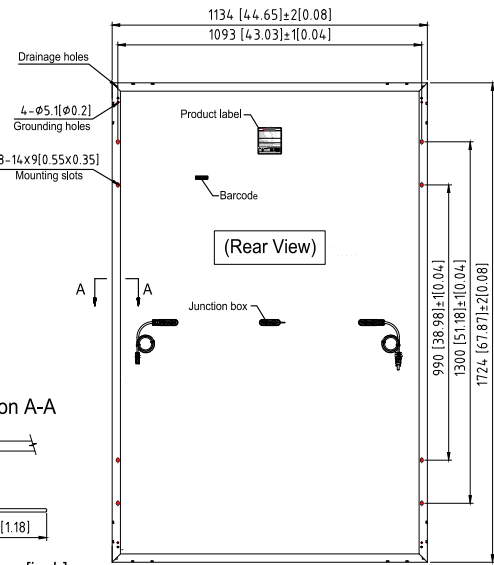
Electrical Characteristics

STC	STPXXXS-C54/Umh				
Maximum Power at STC (Pmax)	430W	425W	420W	415W	410W
Optimum Operating Voltage (Vmp)	32.43V	32.25V	32.03V	31.81V	31.59V
Optimum Operating Current (Imp)	13.26A	13.18A	13.11A	13.05A	12.98A
Open Circuit Voltage (Voc)	38.26V	38.08V	37.86V	37.67V	37.45V
Short Circuit Current (Isc)	14.26A	14.19A	14.12A	14.05A	13.98A
Module Efficiency	22.0%	21.7%	21.5%	21.2%	21.0%
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%;

NMOT	STPXXXS-C54/Umh				
Maximum Power at NMOT (Pmax)	328.W	324.3W	320.5W	316.7W	312.8W
Optimum Operating Voltage (Vmp)	30.0V	29.8V	29.6V	29.4V	29.2V
Optimum Operating Current (Imp)	10.94A	10.89A	10.83A	10.77A	10.71A
Open Circuit Voltage (Voc)	36.2V	36.0V	35.8V	35.6V	35.4V
Short Circuit Current (Isc)	11.50A	11.45A	11.39A	11.34A	11.28A

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



Section A-A

Note:mm[inch]

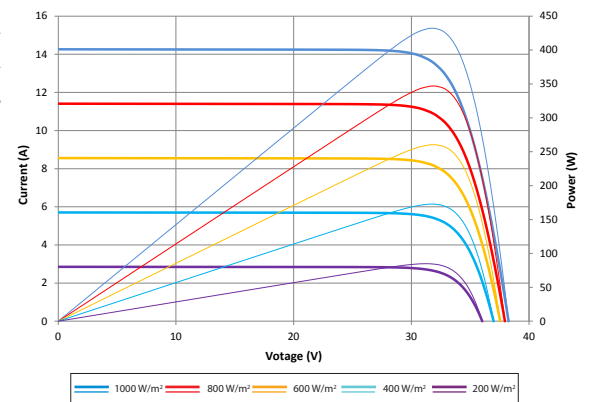
Temperature Characteristics

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

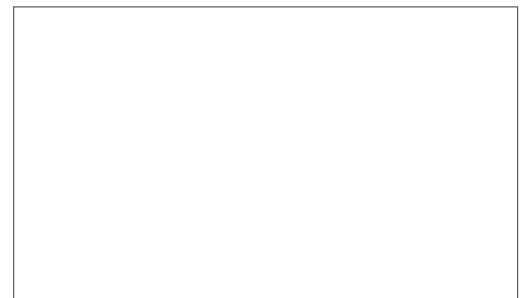
Mechanical Characteristics

Solar Cell	N-type 182 mm
No. of Cells	108 (6 × 18)
Dimensions	1724 × 1134 × 30 mm (67.9 × 44.6 × 1.2 inches)
Weight	22.1 kgs (48.7 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 , (-) 350 mm and (+) 160 mm in length or customized length
Connectors	MC4 EVO2, Cable 01S

Current-Voltage & Power-Voltage Curve (430S)



Dealer information



Packing Configuration

Container	40' HC
Pieces per pallet	36
Pallets per container	26
Pieces per container	936
Packaging box dimensions	1753×1130×1255 mm
Packaging box weight	841 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.