

Ultra V Pro mini

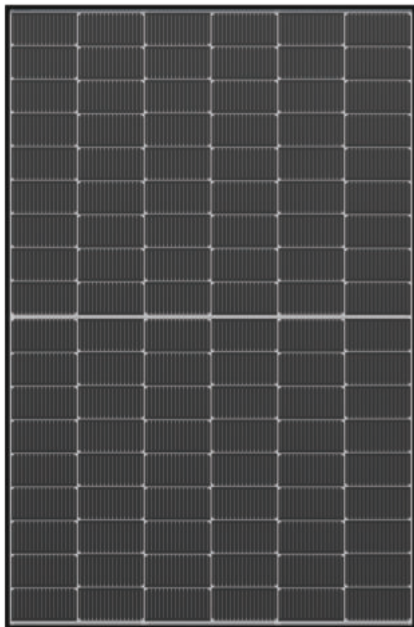
HALF-CELL N-Type TOPCon MONOFACIAL MODULE

TYPE: STPXXXS-C54/Nshm

415-435W 22.3%

POWER OUTPUT

MAX EFFICIENCY



High module conversion efficiency

Module efficiency up to **22.3%** achieved through advanced cell technology and manufacturing process



Multi busbar technology

Superior optical utilization and current collection capability, effectively improving product power and reliability



Excellent low light performance

More power output in low light conditions such as cloudy days, mornings and evenings



Extended wind and snow load tests

Module certified to withstand extreme wind (**2400 Pascal**) and snow loads (**5400 Pascal**)*

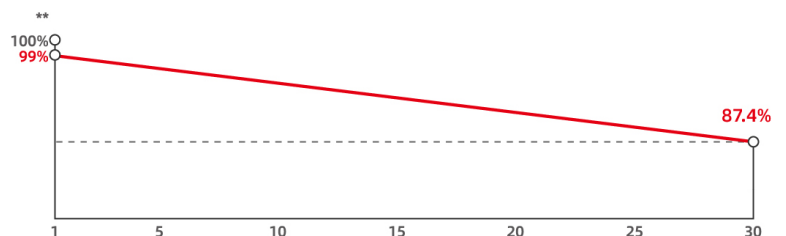


ISO 14001 Environment Management System
ISO 45001 Occupational Health and Safety
ISO 9001 Quality Management System
SA 8000 Social Responsibility Standards
IEC TS 62941 Guideline for Module Design

IEC 61701 Salt-mist Certification
IEC 62716 Ammonia Certification
IEC 60068-2-68 Dust and Sand
IEC 61730-2 (UL790) Fire Class C



30 years of linear warranty
25 years of product warranty



First year power degradation 1% Annual degradation 0.40%

* Please refer to Suntech Standard Module Installation Manual for details.

*** WEEE only for EU market.

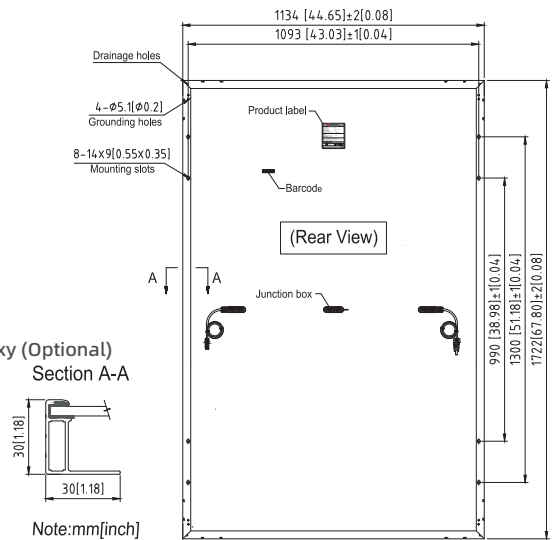
** Please refer to Suntech Limited Warranty for details.

**** Suntech reserves the right to the final.

Ultra V Pro STPXXXS-C54/Nshmm 415-435W

Mechanical Characteristics

Solar Cell	N-type monocrystalline silicon
No. of Cells	108 (6 × 18)
Dimensions	1722 × 1134 × 30 mm(67.8 × 44.6 × 1.2 inches)
Weight	21.0 kg (46.3 lbs.)
Front Glass	3.2 mm (0.126 inches) fully tempered glass
Output Cables	4.0 mm ² , (-) 1400mm (+) 1400 mm in length or customized length
Junction Box	IP68 rated (3 bypass diodes)
Operating Module Temperature	-40 °C to +85 °C
Maximum System Voltage	1500 V DC (IEC)
Connectors	Wuxi Suntech STP-XC4-4 (Default)/ Staubli PV-KST4-EVO2A/xy (Optional)
Maximum Series Fuse Rating	25 A
Power Tolerance	0/+5 W
Frame	Anodized aluminum alloy frame
Packing Configuration	36 pieces per pallet 936 pieces per container /40'HC 1755×1120×1255mm per pallet 794kg per pallet



Electrical Characteristics

Module Type	STP435S-C54/Nshmm		STP430S-C54/Nshmm		STP425S-C54/Nshmm		STP420S-C54/Nshmm		STP415S-C54/Nshmm	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	435	333	430	329	425	326	420	322	415	318
Optimum Operating Voltage (Vmp/V)	32.51	30.40	32.33	30.20	32.15	30.10	31.96	29.90	31.78	29.80
Optimum Operating Current (Imp/A)	13.38	10.96	13.30	10.89	13.22	10.82	13.14	10.76	13.06	10.69
Open Circuit Voltage (Voc/V)	38.85	36.90	38.72	36.80	38.59	36.70	38.46	36.60	38.33	36.50
Short Circuit Current(Isc/A)	14.33	11.55	14.25	11.49	14.17	11.42	14.09	11.36	14.01	11.30
Module Efficiency(%)	22.3		22.0		21.8		21.6		21.3	

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Measuring tolerance of Pmax, Voc, Isc is within +/- 3%;

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C

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.

Graphs Current-Voltage & Power-Voltage Curve (435W)

