



HALF-CELL N-Type TOPCon MONOFACIAL MODULE

TYPE: STPXXXS - C54/Nshm

POWER OUTPUT MAX EFFICIENCY

410-430W 22.0%



Features



High module conversion efficiency

Module efficiency up to 22.0% achieved through advanced cell technology and manufacturing process



Lower operating temperature

Lower operating temperature and temperature coefficient increases the power output



Zero LID degradation

Zero LID performance with N-type cells which grately enhances module power.



Extended wind and snow load tests

Module certified to withstand extreme wind (3800 Pascal) and snow loads (6000 Pascal) *



Excellent weak light performance

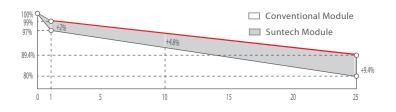
More power output in weak light condition, such as cloudy, morning and sunset



Withstanding harsh environment

Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

Industry-leading Warranty **



- ◆ First year power degradation: 1%
- ◆ Annual degradation: 0.40%
- ◆ Product warranty: 15 years
- ♦ linear warranty: 25 years

Certifications and Standards

IEC 61730 IEC 61215 SA 8000 Social Responsibility Standards ISO 9001 Quality Management System ISO 14001 Environment Management System ISO 45001 Occupational Henlth and Safety IEC TS 62941 Guideline for module design qualification and type approval











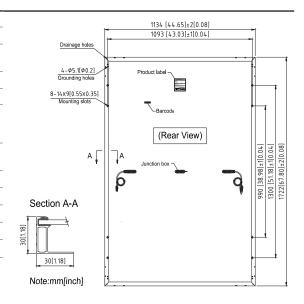
^{*} Please refer to Suntech Standard Module Installation Manual for details. ** Please refer to Suntech Limited Warranty for details.



Ultra V Pro STPXXXS - C54/Nshm 410-430W

Mechanical Characteristics

Solar Cell	N-type Monocrystalline silicon 182 mm	
No. of Cells	108 (6 × 18)	
Dimensions	1722 × 1134 × 30 mm (67.8 × 44.6 × 1.2 inches)	
Weight	21.0 kgs (46.3 lbs.)	
Front Glass	3.2 mm (0.126 inches) fully tempered glass	
Output Cables	4.0 mm², (-) 1400 mm (+) 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	MC4 EVO2	
Maximum Series Fuse Rating	25 A	
Power Tolerance	0/+5 W	



Electrical Characteristics

Module Type	STP 430 S-	C54/Nshm	STP 425 S-	C54/Nshm	STP 420 S-	C54/Nshm	STP 415 S-	C54/Nshm	STP 410 S-	C54/Nshm
Testing Condition	STC	NMOT								
Maximum Power (Pmax/W)	430	328.7	425	325.0	420	321.1	415	317.3	410	313.5
Optimum Operating Voltage (Vmp/V)	32.33	30.2	32.15	30.0	31.96	29.9	31.78	29.7	31.59	29.6
Optimum Operating Current (Imp/A)	13.30	10.89	13.22	10.82	13.14	10.75	13.06	10.68	12.98	10.60
Open Circuit Voltage (Voc/V)	38.72	36.8	38.59	36.6	38.46	36.5	38.33	36.4	38.20	36.3
Short Circuit Current (Isc/A)	14.25	11.49	14.17	11.42	14.09	11.36	14.01	11.30	13.93	11.23
Module Efficiency (%)	2.	2.0	2	1.8	2	1.5	2	1.3	2	1.0

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; Tolerance of Pmax is within +/- 3%;

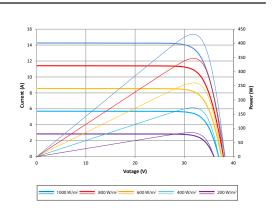
Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C

Packing Configuration

Container	40 ′ HC
Pieces per pallet	36
Pallets per container	26
Pieces per container	936
Packaging box dimensions	1755×1120×1255 mm
Packaging box weight	794 kg

Graphs Current-Voltage & Power-Voltage Curve (430



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.