



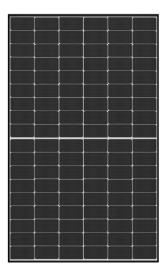
## HALF-CELL N-Type TOPCon MONOFACIAL MODULE

TYPE: STPXXXS - C54/Nshm

**POWER OUTPUT** 

**MAX EFFICIENCY** 

415-435W 22.3%



### **Features**



## High module conversion efficiency

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



## Lower operating temperature

Lower operating temperature and temperature coefficient increases the power output



## 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



## Extended wind and snow load tests

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



#### Excellent weak light performance

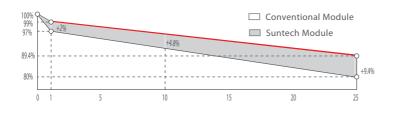
More power output in weak light condition, such as cloudy, morning and sunset



### 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%
- ◆ 25 years of linear warranty
- ◆ 15 years of product warranty (optional for 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 Health and Safety IEC TS 62941 Guideline for Module Design Qualification and Type Approval













Please refer to Suntech Standard Module Installation Manual for details.

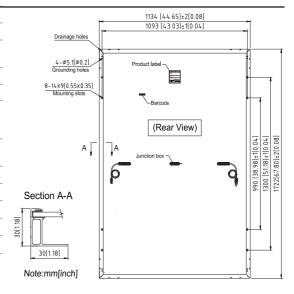
\* Please refer to Suntech Limited Warranty for details.



# Ultra V Pro STPXXXS - C54/Nshm 415-435W

## **Mechanical Characteristics**

N-type Monocrystalline silicon 182 mm
108 (6 × 18)
1722 × 1134 × 30 mm (67.8 × 44.6 × 1.2 inches)
21.0 kgs (46.3 lbs.)
3.2 mm (0.126 inches) fully tempered glass
4.0 mm², (-) 350 mm (+) 160 mm in length or customized length
IP68 rated (3 bypass diodes)
-40 °C to +85 °C
1500 V DC (IEC)
MC4 EVO2
25 A
0/+5 W



## **Electrical Characteristics**

Module Type	STP <b>435</b> S-	-C54/Nshm	STP <b>430</b> S-C54/Nshm		STP <b>425</b> S-C54/Nshm		STP <b>420</b> S-C54/Nshm		STP <b>415</b> S-C54/Nshm	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	435	332. 5	430	328. 7	425	325. 0	420	321.1	415	317. 3
Optimum Operating Voltage (Vmp/V)	32. 51	30. 3	32. 33	30. 2	32. 15	30. 0	31. 96	29. 9	31. 78	29. 7
Optimum Operating Current (Imp/A)	13. 38	10. 96	13. 30	10. 89	13. 22	10.82	13. 14	10. 75	13. 06	10. 68
Open Circuit Voltage (Voc/V)	38. 85	36. 9	38. 72	36. 8	38. 59	36. 6	38. 46	36. 5	38. 33	36. 4
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	1. 3	22	2. 0	21	. 8	21	. 5	21	. 3

 $STC: Irradiance\ 1000\ W/m^2, module\ temperature\ 25\ ^\circ C,\ AM=1.5;\ NMOT:\ Irradiance\ 800\ W/m^2,\ ambient\ temperature\ 20\ ^\circ C,\ AM=1.5,\ wind\ speed\ 1\ m/s;\ Tolerance\ of\ Pmax\ is\ within\ +/-\ 3\%;\ Tolerance\ of\ pmax\ is\ wit$ 

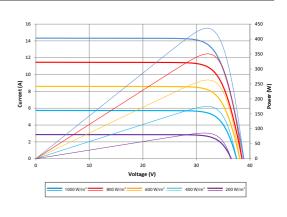
## **Temperature Characteristics**

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%/°€

## **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 (4355)



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 RN 50380. Color differences of the modules relative to the finances as well as discolorations in the modules which do not impair their propore functioning are possible and do not constitute a deviation from the specification.