SUNTECH

Ultra V Pro mini

HALF-CELL N-Type TOPCon
FULL-BLACK MONOFACIAL MODULE
TYPE:　STPXXXS - C54/Nshb

420-440W POWER OUTPUT

22.5% MAX EFFICIENCY

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

Aesthetic appearance design
Elegant design in all-black appearance, harmonious integration with the components of the building to provide an intense aesthetic experience

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 (**3800** Pascal) and snow loads (**6000** 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

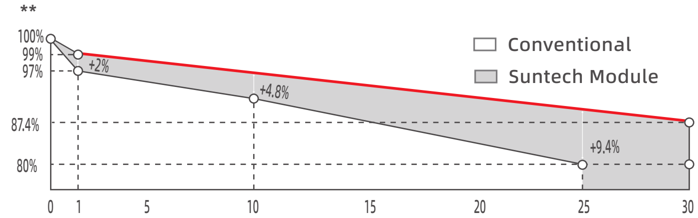
***

Munich RE

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.

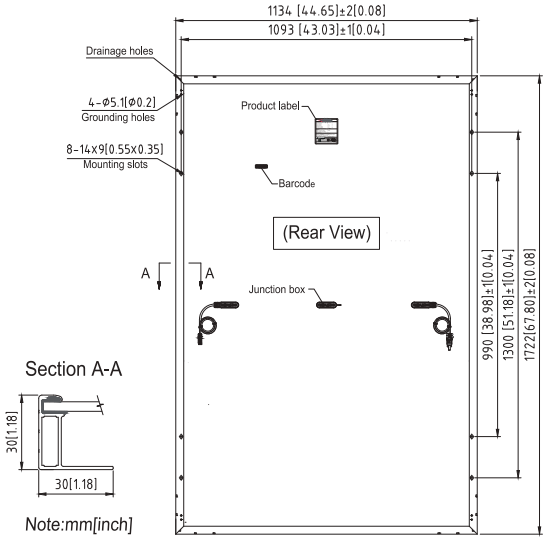
**** Suntech reserves the right to the final.

SUNTECH

Ultra V Pro STPXXXS - C54/Nshb 420-440W

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, (-) 350 mm (+) 160 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	STP-XC4(Standard)/ MC4-EVO2(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 1755×1120×1255 794kg



Electrical Characteristics

Module Type	STP440S-C54/Nshb		STP435S-C54/Nshb		STP430S-C54/Nshb		STP425S-C54/Nshb		STP420S-C54/Nshb	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	440	336.4	435	332.5	430	329.3	425	325.5	420	321.6
Optimum Operating Voltage (Vmp/V)	32.69	30.5	32.51	30.3	32.33	30.2	32.15	30.1	31.96	29.9
Optimum Operating Current (Imp/A)	13.46	11.03	13.38	10.96	13.30	10.89	13.22	10.82	13.14	10.75
Open Circuit Voltage (Voc/V)	38.98	37.0	38.85	36.9	38.72	36.8	38.59	36.7	38.46	36.6
Short Circuit Current (Isc/A)	14.41	11.62	14.33	11.55	14.25	11.49	14.17	11.42	14.09	11.36
Module Efficiency (%)	22.5		22.3		22.0		21.8		21.5	

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%;

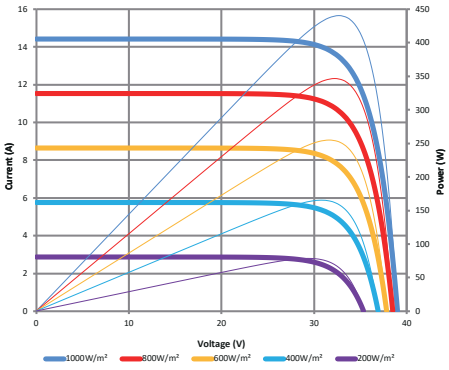
Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.29%/°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 (440W)



Information bar