

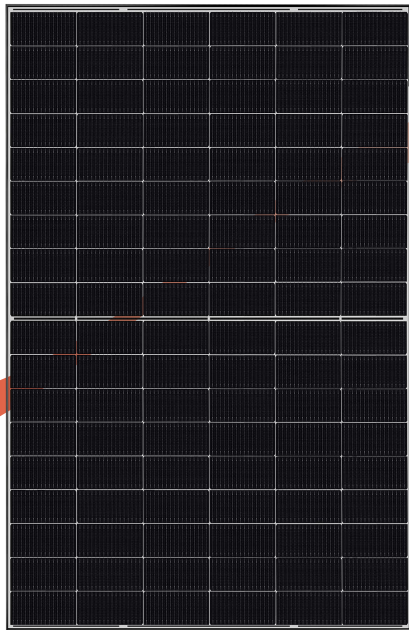
Ultra T 2.0

HALF-CELL N-TYPE TOPCon

BLACK THRU BIFACIAL DOUBLE-GLASS MODULE

TYPE: STPXXXS-H54-Nth+

495-515W **23.2%**
POWER OUTPUT MAX EFFICIENCY



High module conversion efficiency

Module efficiency up to **23.2%** 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



Superior load-bearing capability

Module certified to withstand **5400 Pa** front side max static test load and **2400 Pa** rear side max static test load *

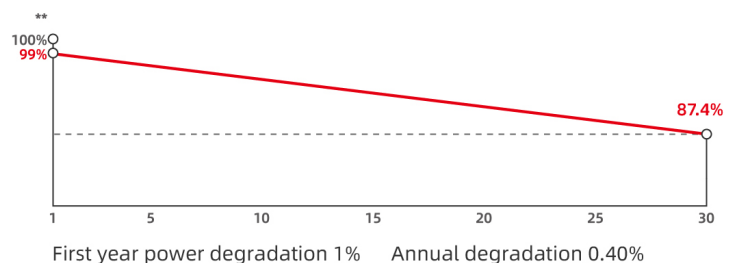


ISO 14001 Environment Management System
ISO 45001 Occupational Health and Safety
ISO 9001 Quality Management System
SA 8000 Social Responsibility Standards
IEC TS 62941 Guideline for Module Design

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



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

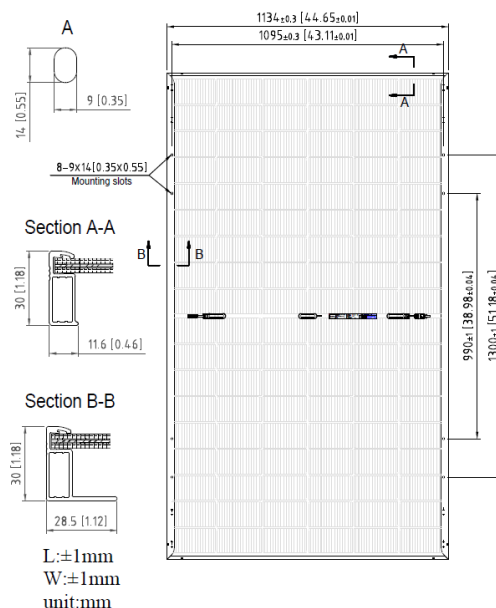
*** WEEE only for EU market.

** Please refer to Suntech Limited Warranty for details.

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

Mechanical Characteristics

Solar Cell	N-type monocrystalline silicon
No. of Cells	108 (6 × 18)
Dimensions	1961 × 1134 × 30 mm (77.2 × 44.6 × 1.2 inches)
Weight	23.5 kg (51.81 lbs.)
Front Glass	1.6 mm (0.063 inches), anti-reflective coating
Back Glass	1.6 mm (0.063 inches), heat strengthened glass
Output Cables	4.0 mm ² , (-) 1400 mm (+) 1400 mm in length or customized length
Junction Box	IP68 rated (3 bypass diodes)
Operating Module Temperature	-40 °C - +70 °C
Maximum System Voltage	1500 V DC (IEC)
Connectors	STP-XC4 (Standard)/ MC4-EVO2A (Optional)
Maximum Series Fuse Rating	35 A
Power Tolerance	0 ~ + 3%
Refer. Bifaciality Factor	(80 ± 5)%
Frame	Anodized aluminum alloy frame
Packing Configuration	36 pieces per pallet 864 pieces per container / 40'HC 1987×1120×1255 mm per pallet 893 kg per pallet



Electrical Characteristics (STC)

Module Type	STP515S-H54-Nth+	STP510S-H54-Nth+	STP505S-H54-Nth+	STP500S-H54-Nth+	STP495S-H54-Nth+
Maximum Power (Pmax/W)	515	510	505	500	495
Optimum Operating Voltage (Vmp/V)	34.62	34.39	34.17	33.95	33.72
Optimum Operating Current (Imp/A)	14.88	14.83	14.78	14.73	14.68
Open Circuit Voltage (Voc/V)	40.89	40.72	40.55	40.38	40.21
Short Circuit Current (Isc/A)	15.78	15.73	15.68	15.63	15.58
Module Efficiency (%)	23.2	22.9	22.7	22.5	22.3

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; Measuring tolerance is within +/- 3%;

Electrical Characteristics (BNPI)

Maximum Power (Pmax/W)	567	562	556	551	545
Optimum Operating Voltage (Vmp/V)	34.62	34.39	34.17	33.95	33.72
Optimum Operating Current (Imp/A)	16.38	16.34	16.27	16.23	16.16
Open Circuit Voltage (Voc/V)	40.89	40.72	40.55	40.38	40.21
Short Circuit Current (Isc/A)	17.48	17.43	17.37	17.32	17.15

BNPI: Irradiance front 1000 W/m², rear 135 W/m², module temperature 25 °C, AM=1.5;

Temperature Characteristics

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 (510W)

