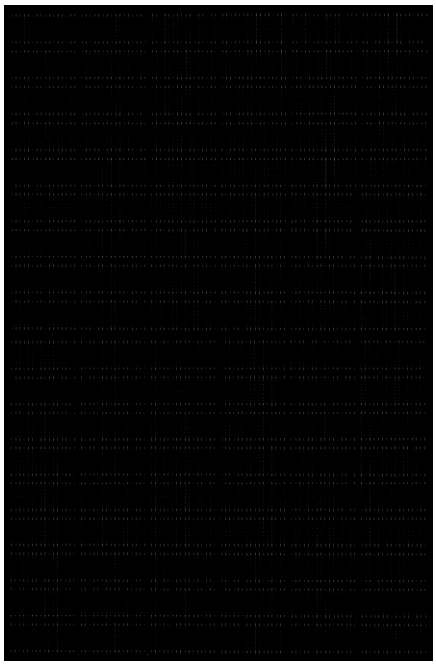
SUNTECH

Ultra T 2.0

HALF-CELL N-TYPE TOPCon
BLACK PRO MONOFACIAL DOUBLE-GLASS MODULE
TYPE: STPXXXS-H54-Nfb+

495-515W POWER OUTPUT

23.2% MAX EFFICIENCY



Aesthetic appearance design

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

Lightweight double glass

Lightweight double glass structure which effectively reduces the rate of module breakage. The ideal module size and weight make handling and installation easier

Withstand harsh environments

Reliable quality that makes module resistant even to high temperatures, salt water and ammonia

Superior load-bearing capability

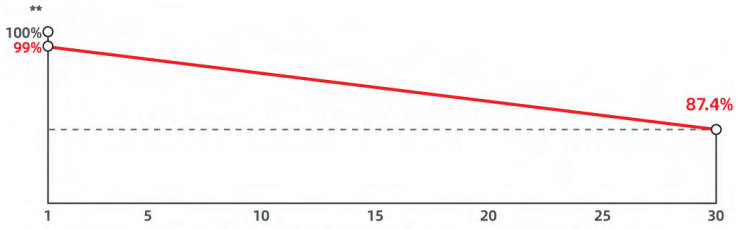
Module certified to withstand **5400 Pa** front side max static test load and **2400 Pa** rear side max static test load *

ISO 14001	Environment Management System	IEC 61701	Salt-mist Certification
ISO 45001	Occupational Health and Safety	IEC 62716	Ammonia Certification
ISO 9001	Quality Management System	IEC 60068-2-68	Dust and Sand
SA 8000	Social Responsibility Standards		
IEC TS 62941	Guideline for Module Design		

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.

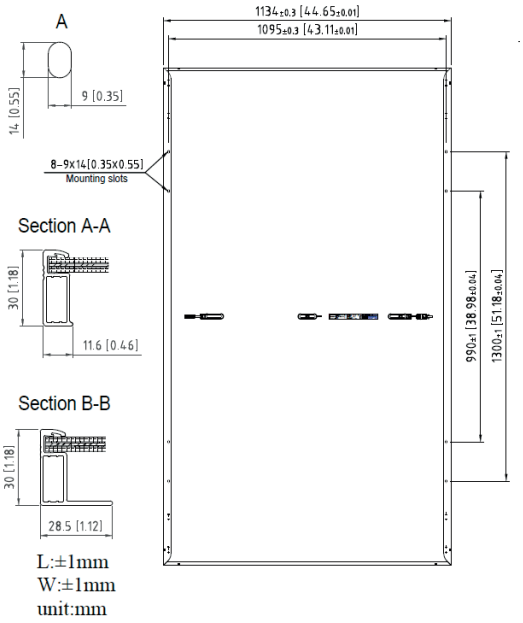
** Please refer to Suntech Limited Warranty for details.

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

Ultra T 2.0 STPXXXS-H54-Nfb+ 495-515W

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 (Including Connector)	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 +70 °C
Maximum System Voltage	1500 V DC (IEC)
Connectors	STP-XC4-4 (Standard)/ MC4-EVO2A (Optional)
Maximum Series Fuse Rating	35 A
Power Tolerance	0 ~ + 3%
Frame	Anodized aluminum alloy frame
Packing Configuration	36 pieces per pallet 864 pieces per container / 40'HC 1980 × 1120 × 1260 mm per pallet 893 kg per pallet



Electrical Characteristics (STC)

Module Type	STP515S-H54-Nfb+	STP510S-H54-Nfb+	STP505S-H54-Nfb+	STP500S-H54-Nfb+	STP495S-H54-Nfb+
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

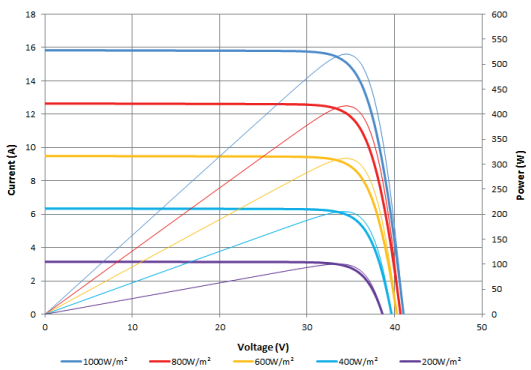
STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; Measuring tolarance is within +/- 3%;

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)



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