

Ultra V Pro

HALF-CELL N-Type TOPCon FULL-BLACK Glass-Glass MONOFACIAL MODULE TYPE: STPXXXS-H54-Nfb+

490-510W 22.9%

POWER OUTPUT



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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

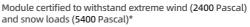
Lightweight double glass structure which effectively reduces the rate of module breakage. The ideal module size and weight make handling and installation easier



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



Extended wind and snow load tests





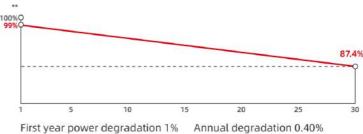
30 years of linear warranty25 years of product warranty



- IEC 61701 Salt-mist Certification
- IEC 62716 Ammonia Certification IEC 60068-2-68 Dust and Sand
 - IEC 61730-2 (UL790) Fire Class C



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* Please refer to Suntech Standard Module Installation Manual for details

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

** Please refer to Suntech Limited Warranty for details.

*** WEEE only for EU market.



Ultra VPro STPXXXS-H54-Nfb+ 490-510W

Mechanical Characteristics

Solar Cell	N-type monocrystalline silicon				
No. of Cells	108 (6 × 18)		1134 [44.6]±2[0.08		-
Dimensions	1961 × 1134 × 30 mm (77.2 × 44.6× 1.2 inches)		1093 [43.0]±2[0.08	B	-1
Weight	23.5 kg (51.81lb.)		1		-
Front/Back Glass	1.6 + 1.6 mm (0.063 + 0.063 inches) semi-tempered glass	4-\$5.1[\$0.2] Grounding holes	1	в	
Output Cables	4.0 mm², (-) 1400 mm (+) 1400 mm in length or customized length	8-14x9[0.55x0.35] Mounting slots			
Junction Box	IP68 rated (3 bypass diodes)		(Rear View)]	
Operating Module Temperature	-40 °C - +85 °C	_	l.		1[0.04] 1[0.04] 2[0.08]
Maximum System Voltage	1500 V DC (IEC)	Section A-A A	ļ^		98]±1[0.04] 18]±1[0.04] .2]±2[0.08]
Connectors	STP-XC4 (Standard)/ MC4-EVO2 (Optional)				38.
Maximum Series Fuse Rating	35 A	3011	p	q	990 [1300 1961
Power Tolerance	0/+5 W	28[1.10]			
Frame	Anodized aluminum alloy frame	Section B-B			
Packing Configuration	36 pieces per pallet 792 pieces per container /40'HC 1995×1120×1255mm per pallet 891kg per pallet		•		••
For tracker installation, please turn to Suntech for	mechanical load information.	Note:mm[inch]			10

Electrical Characteristics

Module Type	STP510S	H54-Nfb+	STP505S-	H54-Nfb+	STP500S	-H54-Nfb+	STP495S-	H54-Nfb+	STP490S-	H54-Nfb+
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	510	390	505	386	500	383	495	379	490	375
Optimum Operating Voltage (Vmp/V)	33.70	31.80	33.50	31.60	33.30	31.40	33.10	31.20	32.90	31.00
Optimum Operating Current (Imp/A)	15.13	12.24	15.07	12.21	15.02	12.18	14.95	12.14	14.89	12.11
Open Circuit Voltage (Voc/V)	40.54	38.50	40.33	38.30	40.12	38.10	39.91	37.90	39.70	37.80
Short Circuit Current (Isc/A)	15.95	12.86	15.91	12.83	15.87	12.80	15.83	12.76	15.79	12.73
Module Efficiency (%)	22	2.9	22	2.7	22	2.5	22	.3	22	.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; Measuring tolarance is within +/- 3%;

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 ℃	
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.

