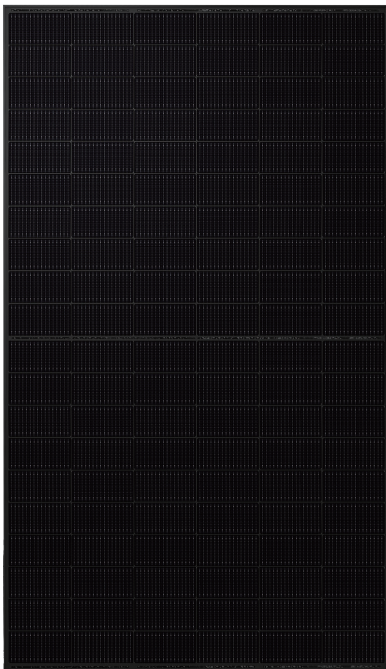


Ultra V Pro

HALF-CELL N-Type TOPCon
FULL-BLACK Glass-Glass BIFACIAL MODULE
TYPE: STPXXXS-I60-Nsfb+



490-510W **23.0%**
POWER OUTPUT 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



Multi busbar technology

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



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 *



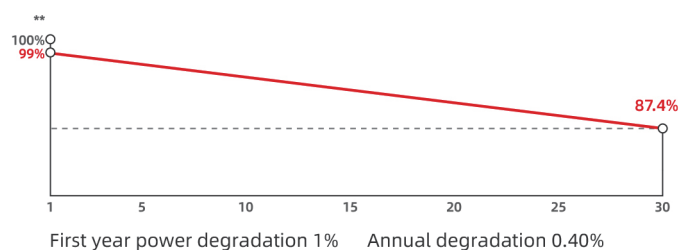
Tier1
Bloomberg
NEW ENERGY FINANCE

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.

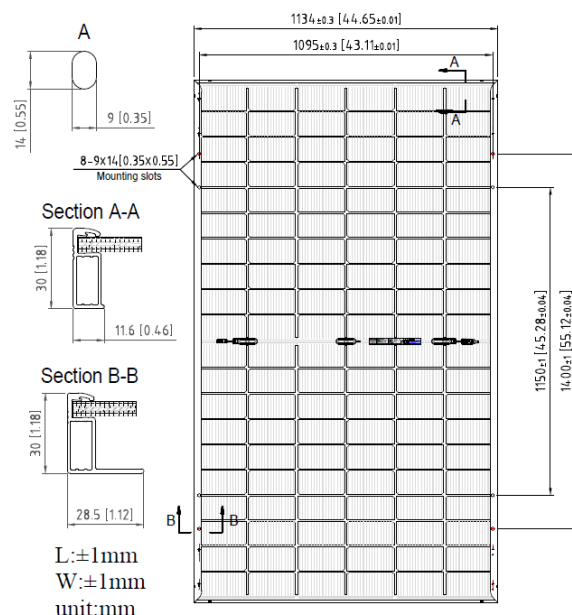
** Please refer to Suntech Limited Warranty for details.

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

Ultra V Pro STPXXXS-I60-Nsfb+ 490-510W

Mechanical Characteristics

Solar Cell	N-type Monocrystalline silicon
No. of Cells	120 (6 × 20)
Dimensions	1952 × 1134 × 30 mm (76.85 × 44.6 × 1.2 inches)
Weight	26.5 kg (58.4 lb.)
Front/Back Glass	2.0+2.0 mm (0.079+ 0.079 inches) (rear glass in glazed black/transparent)
Output Cables	4.0 mm ² , (-) 1400 mm and (+) 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 EVO2(Optional)
Maximum Series Fuse Rating	30 A
Power Tolerance	0/+5 W
Refer. Bifaciality Factor	(80 ± 5)%
Frame	Black anodized aluminum alloy frame
Packing Configuration	36 pieces per pallet 864 pieces per container /40'HC 1003 kg per pallet



For tracker installation, please turn to Suntech for mechanical load information.

Electrical Characteristics (STC)

Module Type	STP510S-I60-Nsfb+	STP505S-I60-Nsfb+	STP500S-I60-Nsfb+	STP495S-I60-Nsfb+	STP490S-I60-Nsfb+
Maximum Power (Pmax/W)	510	505	500	495	490
Optimum Operating Voltage (Vmp/V)	36.91	36.73	36.55	36.37	36.19
Optimum Operating Current (Imp/A)	13.82	13.75	13.68	13.61	13.54
Open Circuit Voltage (Voc/V)	44.12	43.92	43.72	43.52	43.32
Short Circuit Current (Isc/A)	14.56	14.49	14.42	14.35	14.28
Module Efficiency (%)	23.0	22.8	22.6	22.4	22.1

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

Electrical Characteristics (BNPI)

Maximum Power (Pmax/W)	562	556	550	545	540
Optimum Operating Voltage (Vmp/V)	36.91	36.73	36.51	36.37	36.19
Optimum Operating Current (Imp/A)	15.22	15.14	15.06	14.98	14.91
Open Circuit Voltage (Voc/V)	44.12	43.92	43.72	43.52	43.32
Short Circuit Current (Isc/A)	16.03	15.95	15.88	15.80	15.72

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	-0.24%/°C
Temperature Coefficient of Isc	0.043%/°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 (500W)

