

Ultra T 1.0

HALF-CELL N-TYPE TOPCon

SILVER FRAME BIFACIAL DOUBLE-GLASS MODULE

TYPE: STPXXS-C72/Nsh+



580-600W **23.2%**
POWER OUTPUT MAX EFFICIENCY



Multi busbar technology

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



High power output

Zero LID, ultra-low LeTID, better anti-PID performance, low power attenuation, high power output



Double-sided power generation

The gain of double-sided power generation increases up to max. 25% with the light on the back side, and significantly reduce LCOE



Superior load-bearing capability

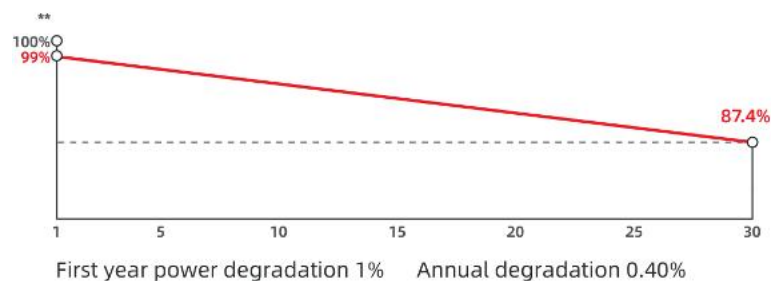
Module certified to withstand **5400 Pa** front side max static test load and **2400 Pa** rear side max static test load *



30 years of linear warranty
15 years of product warranty

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



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

*** WEEE only for EU market.

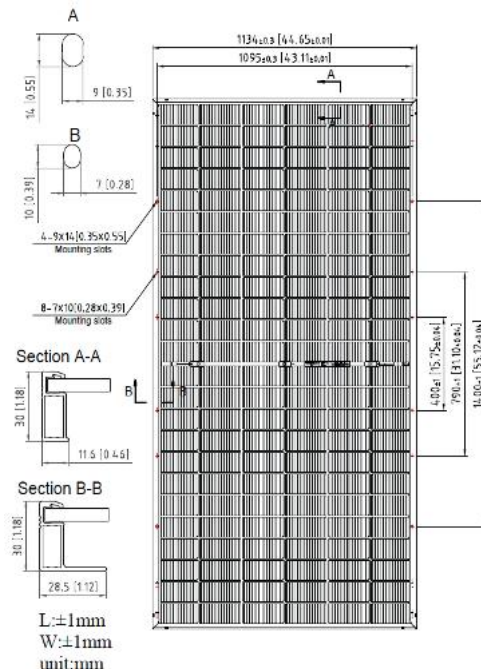
** Please refer to Suntech Limited Warranty for details.

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

Mechanical Characteristics

Solar Cell	N-type monocrystalline silicon
No. of Cells	144 (6 × 24)
Dimensions	2278 × 1134 × 30 mm (89.7 × 44.6 × 1.2 inches)
Weight	31.5 kg (69.45 lbs.)
Front Glass	2.0 mm (0.079 inches), anti-reflective coating
Back Glass	2.0 mm (0.079 inches), heat strengthened glass
Output Cables (Including Connector)	4.0 mm ² , (-) 300 mm / (+) 300mm 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 or customer specifies
Maximum Series Fuse Rating	25 A
Power Tolerance	0 ~ + 3%
Refer. Bifaciality Factor	(80 ± 5)%
Frame	Anodized aluminum alloy frame
Packing Configuration	36 pieces per pallet 720 pieces per container /40'HC 2310 × 1125 × 1260 mm per pallet 1215 kg per pallet

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



Electrical Characteristics (STC)

Module Type	STP600S-C72/Nsh+	STP595S-C72/Nsh+	STP590S-C72/Nsh+	STP585S-C72/Nsh+	STP580S-C72/Nsh+
Maximum Power (Pmax/W)	600	595	590	585	580
Optimum Operating Voltage (Vmp/V)	43.13	43.02	42.91	42.79	42.68
Optimum Operating Current (Imp/A)	13.91	13.83	13.75	13.67	13.59
Open Circuit Voltage (Voc/V)	51.94	51.81	51.68	51.55	51.42
Short Circuit Current (Isc/A)	14.64	14.56	14.48	14.40	14.32
Module Efficiency (%)	23.2	23.0	22.8	22.6	22.5

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

Electrical Characteristics (BNPI)

Module Type	STP600S-C72/Nsh+	STP595S-C72/Nsh+	STP590S-C72/Nsh+	STP585S-C72/Nsh+	STP580S-C72/Nsh+
Maximum Power (Pmax/W)	665	659	654	648	643
Optimum Operating Voltage (Vmp/V)	43.10	43.00	42.90	42.80	42.70
Optimum Operating Current (Imp/A)	15.43	15.33	15.25	15.15	15.06
Open Circuit Voltage (Voc/V)	52.22	52.09	51.96	51.83	51.70
Short Circuit Current (Isc/A)	16.22	16.13	16.04	15.96	15.87

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 (585W)

