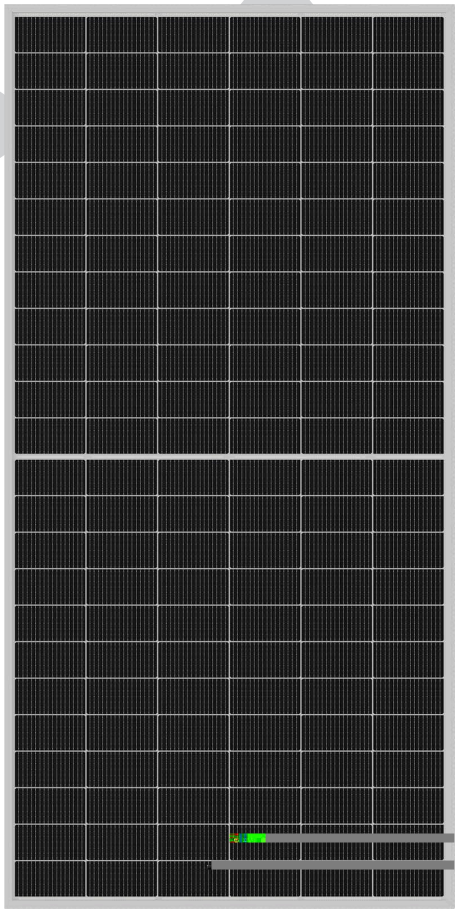
SUNTECH

Ultra T 1.0

HALF-CELL N-TYPE TOPCon
SILVER FRAME BIFACIAL DOUBLE-GLASS MODULE
TYPE: STPXXXS-C72/Nsh+



580-600W
POWER OUTPUT

23.2%
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

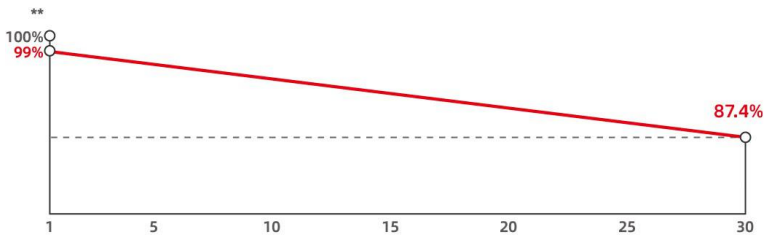
Superior load-bearing capability
Module certified to withstand **5400 Pa** front side max static test load and **2400 Pa** rear side max static test load *

EUPD RESEARCH TOP BRAND PV MODULES 2024

TOP PERFORMER 2024 kiwa PVEL PV MODULE RELIABILITY SCORECARD

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

CE Munich RE



First year power degradation 1% Annual degradation 0.40%

30 years of linear warranty

15 years of product warranty

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

** Please refer to Suntech Limited Warranty for details.

*** WEEE only for EU market.

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

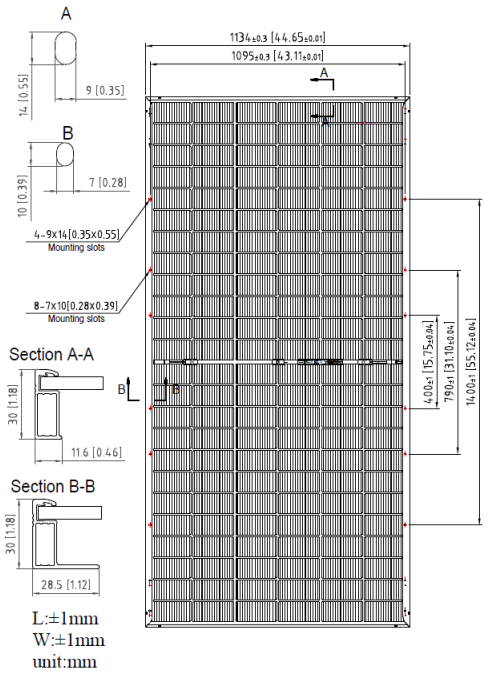
SUNTECH

Ultra T 1.0 STPXXXS-C72/Nsh+ 580-600W

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	32.0 kg (70.5 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	4.0 mm², (-) 350 mm and (+) 160 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
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 2310×1120×1255mm per pallet 1202kg 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)

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;

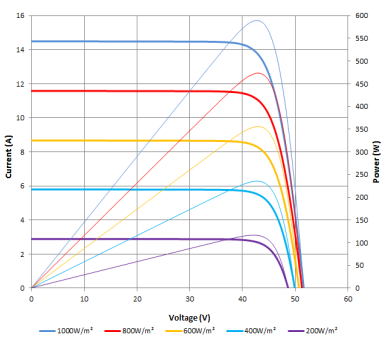
Temperature Characteristics

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)



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