

# Ultra V Pro

HALF-CELL N-Type TOPCon  
Glass-Glass BIFACIAL MODULE  
TYPE: STPXXXS-C78/Nsh+

**620-640W** **22.9%**  
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 \*

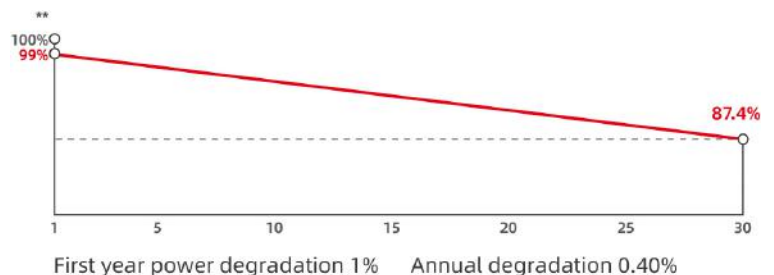


ISO 14001 Environment Management System  
ISO 45001 Occupational Health and Safety  
ISO 9001 Quality Management System  
SA 8000 Social Responsibility Standards  
IEC TS 62941 Guideline for Module Design

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  
**15** years of product warranty



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

\*\* Please refer to Suntech Limited Warranty for details.

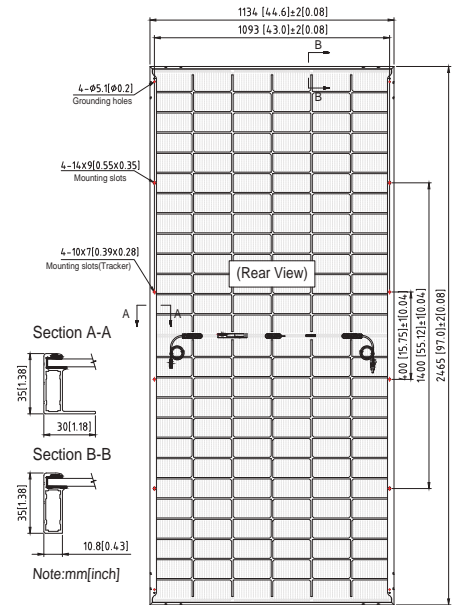
\*\*\* WEEE only for EU market.

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

# Ultra V Pro STPXXS-C78/Nsh+ 620-640W

## Mechanical Characteristics

Solar Cell	N-type monocrystalline silicon
No. of Cells	156 (6 × 26)
Dimensions	2465 × 1134 × 35 mm (97 × 44.6 × 1.4 inches)
Weight	35.1 kg (77.4 lbs.)
Front \ Back Glass	2.0+2.0 mm (0.079+ 0.079inches) semi-tempered glass
Output Cables	4.0 mm <sup>2</sup> , (-) 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 or customized connectors
Maximum Series Fuse Rating	30 A
Power Tolerance	0/+5 W
Refer. Bifaciality Factor	(80 ± 5)%
Frame	Anodized aluminum alloy frame
Packing Configuration	31 pieces per pallet 496 pieces per container /40'HC 2495×1120×1255 mm per pallet 1145 kg per pallet



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

## Electrical Characteristics (STC)

Module Type	STP640S-C78/Nsh+	STP635S-C78/Nsh+	STP630S-C78/Nsh+	STP625S-C78/Nsh+	STP620S-C78/Nsh+
Maximum Power (Pmax/W)	640	635	630	625	620
Optimum Operating Voltage (Vmp/V)	46.16	46.06	45.96	45.86	45.76
Optimum Operating Current (Imp/A)	13.86	13.79	13.71	13.63	13.55
Open Circuit Voltage (Voc/V)	56.18	56.03	55.88	55.73	55.58
Short Circuit Current (Isc/A)	14.54	14.47	14.40	14.33	14.26
Module Efficiency (%)	22.9	22.7	22.5	22.4	22.2

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5; Measuring tolerance is within +/- 3%;

## Electrical Characteristics (BNPI)

	709	704	698	693	687
Maximum Power (Pmax/W)					
Optimum Operating Voltage (Vmp/V)	46.20	46.10	46.00	45.90	45.80
Optimum Operating Current (Imp/A)	15.35	15.27	15.18	15.10	15.00
Open Circuit Voltage (Voc/V)	56.48	56.33	56.18	56.03	55.88
Short Circuit Current(Isc/A)	16.11	16.03	15.96	15.88	15.80

BNPI: Irradiance front 1000 W/m<sup>2</sup>, rear 135 W/m<sup>2</sup>, 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

## Graphs Current-Voltage & Power-Voltage (630W)

