

Ultra V Pro Plus

HALF-CELL N-Type TOPCon BIFACIAL MODULE

TYPE: STPXXXS - C78/Nsh+

615-635W **22.7%**
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



Extended wind and snow load tests

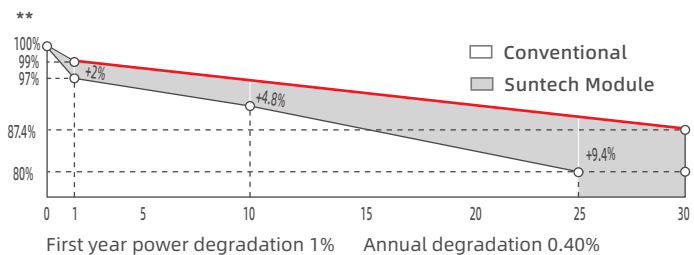
Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)*



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
IEC 61730-2 (UL790) fire class C



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

** Please refer to Suntech Limited Warranty for details.

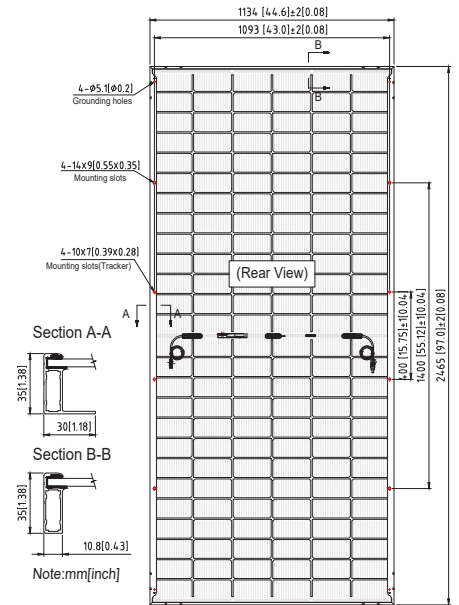
*** WEEE only for EU market.

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

Ultra V Pro STPXXXS - C78/Nsh+ 615-635W

Mechanical Characteristics

| | |
|------------------------------|--------------------------------------------------------------------------------------|
| Solar Cell | N-type Monocrystalline silicon 182 mm |
| No. of Cells | 156 (6 × 26) |
| Dimensions | 2465 × 1134 × 35 mm (97 × 44.6 × 1.4 inches) |
| Weight | 35.1 kgs (77.4 lbs.) |
| Front \ Back Glass | 2.0±2.0 mm (0.079± 0.079inches) semi-tempered glass |
| Output Cables | 4.0 mm ² , (-) 350 mm and (+) 160 mm in length or customized length |
| Junction Box | IP68 rated (3 bypass diodes) |
| Operating Module Temperature | -40 °C to +85 °C |
| Maximum System Voltage | 1500 V DC (IEC) |
| Connectors | STP-XC4 |
| Maximum Series Fuse Rating | 25 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 1145kg |



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

Electrical Characteristics

| Module Type | STP635S-C78/Nsh+ | | STP630S-C78/Nsh+ | | STP625S-C78/Nsh+ | | STP620S-C78/Nsh+ | | STP615S-C78/Nsh+ | |
|-----------------------------------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|
| | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
| Maximum Power (Pmax/W) | 635 | 484.7 | 630 | 480.9 | 625 | 477.0 | 620 | 473.2 | 615 | 649.4 |
| Optimum Operating Voltage (Vmp/V) | 46.06 | 43.7 | 45.96 | 43.6 | 45.86 | 43.5 | 45.76 | 43.3 | 45.66 | 43.2 |
| Optimum Operating Current (Imp/A) | 13.79 | 11.08 | 13.71 | 11.03 | 13.63 | 10.97 | 13.55 | 10.92 | 13.47 | 10.86 |
| Open Circuit Voltage (Voc/V) | 56.03 | 53.2 | 55.88 | 53.1 | 55.73 | 52.9 | 55.58 | 52.8 | 55.43 | 52.6 |
| Short Circuit Current (Isc/A) | 14.47 | 11.67 | 14.40 | 11.61 | 14.33 | 11.55 | 14.26 | 11.50 | 14.19 | 11.44 |
| Module Efficiency (%) | 22.7 | | 22.5 | | 22.4 | | 22.2 | | 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; Tolerance of Pmax is within +/- 3%;

Different Rearside Power Gain Reference to 620S Front

| Rearside Power Gain | 5% | 15% | 25% |
|-----------------------------------|-------|-------|-------|
| Maximum Power at STC (Pmax) | 651.0 | 713.0 | 775.0 |
| Optimum Operating Voltage (Vmp/V) | 45.8 | 45.8 | 45.9 |
| Optimum Operating Current (Imp/A) | 14.23 | 15.58 | 16.94 |
| Open Circuit Voltage (Voc/V) | 55.6 | 55.6 | 55.7 |
| Short Circuit Current (Isc/A) | 14.97 | 16.40 | 17.83 |
| Module Efficiency (%) | 23.3 | 25.5 | 27.7 |

Temperature Characteristics

| | |
|---------------------------------------------|-----------|
| Nominal Module Operating Temperature (NMOT) | 42 ± 2 °C |
| Temperature Coefficient of Pmax | -0.30%/°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 (630S)

