**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)*

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ISO 14001  Environment Management System  IEC 61701  Salt-mist certification
ISO 45001  Occupational Health and Safety  IEC 62716  ammonia certification
ISO 9001  Quality Management System  IEC 60068-2-68  Dust and Sand
SA 8000  Social Responsibility Standards  IEC 61730-2 (UL790)  fire class C
IEC TS 62941Guideline for Module Design

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30 years of linear warranty
15 years of product warranty

* Please refer to Suntech Standard Module Installation Manual for details.
*** WEEE only for EU market.
**** Suntech reserves the right to the final.
Ultra V Pro STPXXS - C78/Nsh+ 615-635W

Mechanical Characteristics

Solar Cell: N-type Monocrystalline silicon 182 mm
No. of Cells: 156 (6 x 26)
Dimensions: 2465 x 1134 x 35 mm (97 x 44.6 x 1.4 inches)
Weight: 35.1 kgs (77.4 lbs.)
Front / Back Glass: 2.0+2.0 mm (0.079+0.079 inches) semi-tempered 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 +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+
---|---|---|---|---|---
Testing Condition | 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
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
Module Efficiency (%) | 22.7 | 22.5 | 22.4 | 22.2 | 22.0

STC: Insolation 1000 W/m², module temperature 25 °C, AM=1.5; NMOT: Insolation 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%.

Different Rear side Power Gain Reference to 620S Front

Reaseide 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

Graphs Current-Voltage & Power-Voltage (630S)

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 50530. Color differences of the modules relative to the figures as well as discolorations of the modules which do not impact their proper functioning are possible and do not constitute a deviation from the specification.