SUNTECH

# Ultra V Pro mini

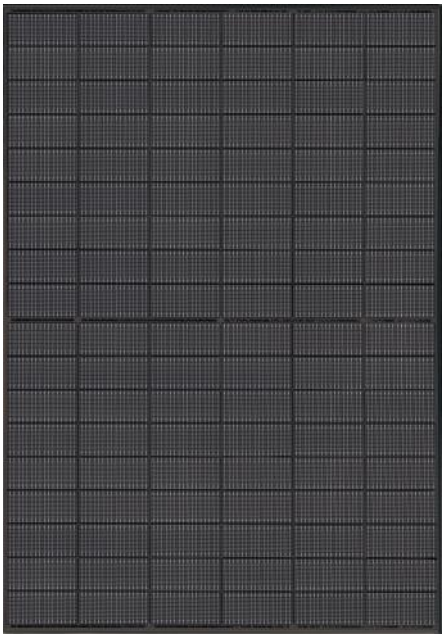
HALF-CELL N-Type TOPCon

FULL-BLACK SINGLE GLASS MONOFACIAL MODULE

TYPE： STPXXXS-C54/Nshb

**425-445W** POWER OUTPUT

**22.8%** MAX EFFICIENCY



## Multi busbar technology

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

## Aesthetic appearance design

Elegant design in all-black appearance, harmonious integration with the components of the building to provide an intense aesthetic experience

## Excellent low light performance

More power output in low light conditions such as cloudy days, mornings and evenings

## Extended wind and snow load tests

Module certified to withstand extreme wind (**3800** Pascal) and snow loads (**6000** Pascal)*

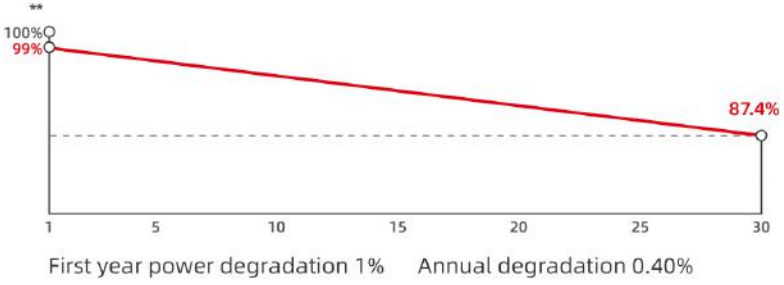
EUPD RESEARCH TOP BRAND PV MODULES 2024

kiwa TOP PERFORMER 2024 PV MODULE RELIABILITY SCORECARD

Tier 1 Bloomberg NEW ENERGY FINANCE

| | | | |
|---|---|---|---|
| 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 62941 | Guideline for Module Design | | |

CE *** Munich RE




First year power degradation 1% Annual degradation 0.40%

**30** years of linear warranty

**25** years of product warranty

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

*** WEEE only for EU market.

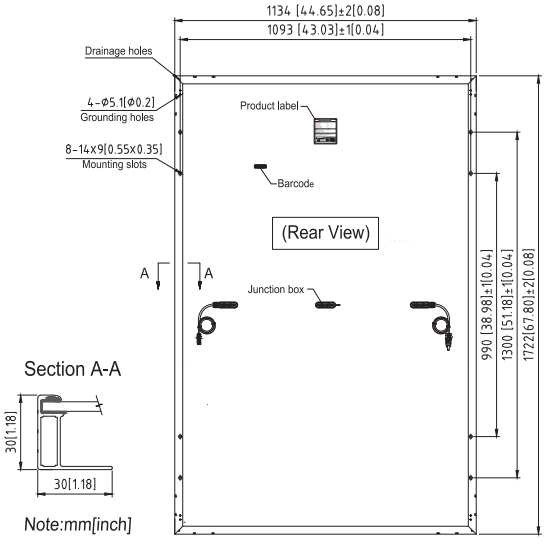
** Please refer to Suntech Limited Warranty for details.

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

# Ultra V Pro STPXXXS-C54/Nshb 425-445W

## Mechanical Characteristics

| | |
|---|---|
| Solar Cell | N-type monocrystalline silicon |
| No. of Cells | 108 (6 × 18) |
| Dimensions | 1722 × 1134 × 30 mm (67.8 × 44.6 × 1.2 inches) |
| Weight | 21.0 kg (46.3 lbs.) |
| Front Glass | 3.2 mm (0.126 inches) fully tempered glass |
| Output Cables | 4.0 mm², (-) 350 mm (+) 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(Standard)/ MC4-EVO2(Optional) |
| Maximum Series Fuse Rating | 25 A |
| Power Tolerance | 0/+5 W |
| Frame | Anodized aluminum alloy frame |
| Packing Configuration | 36 pieces per pallet<br>936 pieces per container /40'HC<br>1755×1120×1255mm per pallet 794kg per pallet |




## Electrical Characteristics

| Module Type | STP445S-C54/Nshb | | STP440S-C54/Nshb | | STP435S-C54/Nshb | | STP430S-C54/Nshb | | STP425S-C54/Nshb | |
|---|---|---|---|---|---|---|---|---|---|---|
| Testing Condition | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
| Maximum Power (Pmax/W) | 445 | 341 | 440 | 337 | 435 | 333 | 430 | 329 | 425 | 326 |
| Optimum Operating Voltage (Vmp/V) | 32.87 | 30.70 | 32.69 | 30.50 | 32.51 | 30.40 | 32.33 | 30.20 | 32.15 | 30.10 |
| Optimum Operating Current (Imp/A) | 13.54 | 11.11 | 13.46 | 11.04 | 13.38 | 10.96 | 13.30 | 10.89 | 13.22 | 10.82 |
| Open Circuit Voltage (Voc/V) | 39.11 | 37.10 | 38.98 | 37.00 | 38.85 | 36.90 | 38.72 | 36.80 | 38.59 | 36.70 |
| Short Circuit Current(Isc/A) | 14.49 | 11.68 | 14.41 | 11.62 | 14.33 | 11.55 | 14.25 | 11.49 | 14.17 | 11.42 |
| Module Efficiency(%) | 22.8 | | 22.5 | | 22.3 | | 22.0 | | 21.8 | |

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; Measuring tolerance is within +/- 3%;

## Temperature Characteristics

| | |
|---|---|
| Nominal Module Operating Temperature (NMOT) | 42 ± 2 °C |
| 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 Curve (435W)