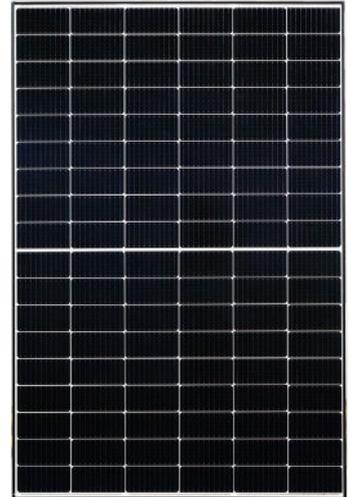


Ultra V Pro mini

HALF-CELL N-TOPCon BIFACIAL MODULE

TYPE: STPXXXS - C54/Nmhm+



POWER OUTPUT

410-430W

MAX EFFICIENCY

22.0%

Features



High module conversion efficiency

Module efficiency up to **22.0 %** achieved through advanced cell technology and manufacturing process.



Lower operating temperature

Lower operating temperature and temperature coefficient increases the power output.



Ultra-low LID degradation

Near-zero LID performance with N-type cells which greatly enhances module power.



Extended wind and snow load tests

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



Excellent weak light performance

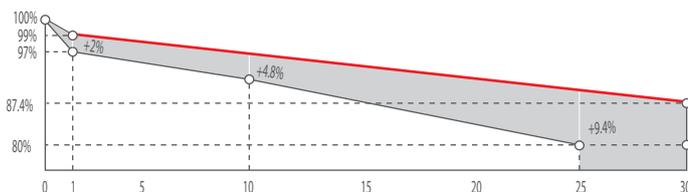
More power output in weak light condition, such as cloudy, morning and sunset.



Withstanding harsh environment

Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline.

Industry-leading Warranty **



- ◆ First year power degradation: 1%
- ◆ Annual degradation: 0.40%
- ◆ Product warranty: 12 years
- ◆ linear warranty: 30 years

Certifications and Standards

CE IEC 61730 IEC 61215
 SA 8000 Social Responsibility Standards
 ISO 9001 Quality Management System
 ISO 14001 Environment Management System
 ISO 45001 Occupational Health and Safety
 IEC TS 62941 Guideline for module design qualification and type approval



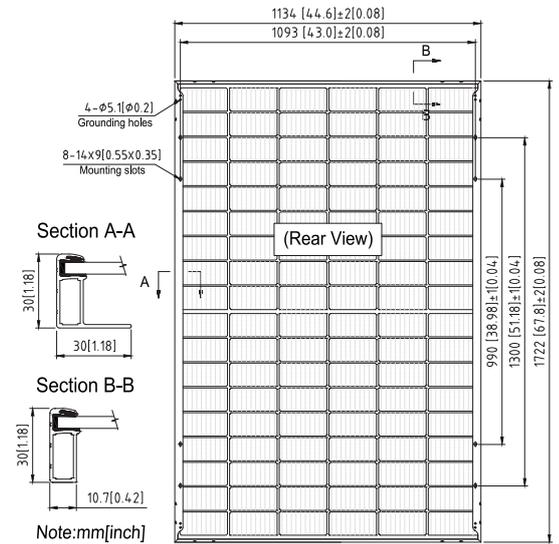
* Please refer to Suntech Standard Module Installation Manual for details.
 ** Please refer to Suntech Limited Warranty for details.

*** WEEE only for EU market.
 **** Suntech reserves the right to the final interpretation of the warranty by Munich Re.

Ultra V Pro STPXXXS - C54/Nmhm+ 410-430W

Mechanical Characteristics

| | |
|------------------------------|--|
| Solar Cell | N-type Monocrystalline silicon 182 mm |
| No. of Cells | 108 (6 × 18) |
| Dimensions | 1722 × 1134 × 30 mm (67.8 × 44.6 × 1.2 inches) |
| Weight | 25.1 kgs (55.3 lbs.) |
| Front \ Back Glass | 2.0 + 2.0 mm (0.079 + 0.079 inches) 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) |
| Maximum Series Fuse Rating | 25 A |
| Power Tolerance | 0/+5 W |
| Refer. Bifaciality Factor | (80 ± 5)% |
| Packing Configuration | Packaging box dimensions (mm) : 1755×1130×1255 Packaging box weight (kg) : 941 36 Pieces per pallet 936 Pieces per container / 40' HC |



Electrical Characteristics

| Module Type | STP430S-C54/Nmhm+ | | STP425S-C54/Nmhm+ | | STP420S-C54/Nmhm+ | | STP415S-C54/Nmhm+ | | STP410S-C54/Nmhm+ | |
|-----------------------------------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|
| | STC | NMOT |
| Maximum Power (Pmax/W) | 430 | 327.1 | 425 | 323.5 | 420 | 320 | 415 | 316 | 410 | 312.2 |
| Optimum Operating Voltage (Vmp/V) | 32.43 | 30.1 | 32.25 | 29.9 | 32.03 | 29.7 | 31.81 | 29.5 | 31.59 | 29.3 |
| Optimum Operating Current (Imp/A) | 13.26 | 10.87 | 13.18 | 10.81 | 13.11 | 10.76 | 13.05 | 10.7 | 12.98 | 10.64 |
| Open Circuit Voltage (Voc/V) | 38.26 | 36.2 | 38.08 | 36.0 | 37.86 | 35.8 | 37.67 | 35.6 | 37.45 | 35.4 |
| Short Circuit Current (Isc/A) | 14.17 | 11.42 | 14.10 | 11.37 | 14.03 | 11.31 | 13.95 | 11.25 | 13.88 | 11.19 |
| Module Efficiency (%) | 22.0 | | 21.8 | | 21.5 | | 21.3 | | 21.0 | |

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 420S Front

| Rearside Power Gain | 5% | 15% | 25% |
|-----------------------------------|-------|-------|-------|
| Maximum Power at STC (Pmax) | 441.0 | 483.0 | 525.0 |
| Optimum Operating Voltage (Vmp/V) | 32.0 | 32.0 | 32.1 |
| Optimum Operating Current (Imp/A) | 13.77 | 15.08 | 16.39 |
| Open Circuit Voltage (Voc/V) | 37.9 | 37.9 | 38.0 |
| Short Circuit Current (Isc/A) | 14.73 | 16.13 | 17.54 |
| Module Efficiency (%) | 22.6 | 24.7 | 26.9 |

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 (430S)

