INFO GROUP GLOBAL ENERGY

Ultra V Pro mini

HALF-CELL N-Type TOPCon MONOFACIAL MODULE

TYPE: STPXXXS - C54/Nshm

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

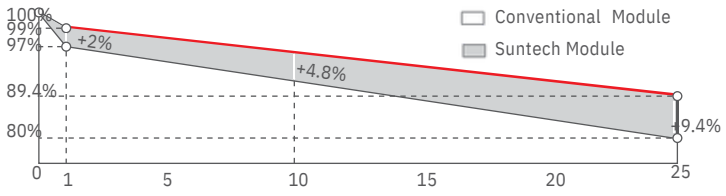
Zero LID degradation
Zero LID performance with N-type cells which grately enhances module power.

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: 15 years
- linear warranty: 25 years

Certifications and Standards

CE IEC 61730 IEC 61215
SA 8000
ISO 9001
ISO 14001
ISO 45001 Occupational Henlth and Safety IEC TS 62941

Social Responsibility Standards
Quality Management System
Environment Management System

Guideline for module design qualification and type approval

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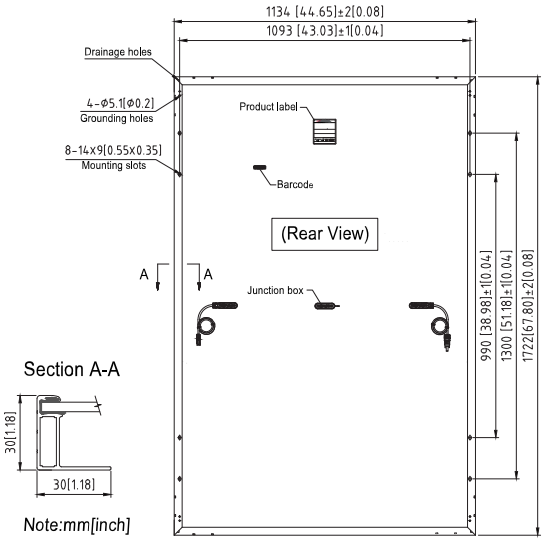
Munich RE

* 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 interpretation of the warranty by Munich Re.

Ultra V Pro STPXXXS - C54/Nshm 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	21.0 kgs (46.3 lbs.)
Front Glass	3.2 mm (0.126 inches) fully tempered glass
Output Cables	4.0 mm2, (-) 1400 mm (+) 1400 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	MC4 EVO2
Maximum Series Fuse Rating	25 A
Power Tolerance	0/+5 W



Electrical Characteristics

Module Type	STP**430**S-C54/Nshm	STP**425**S-C54/Nshm	STP**420**S-C54/Nshm	STP**415**S-C54/Nshm	STP**410**S-C54/Nshm
Testing Condition	STC NMOT	STC NMOT	STC NMOT	STC NMOT	STC NMOT
Maximum Power (Pmax/W)	430 328.7	425 325.0	420 321.1	415 317.3	410 313.5
Optimum Operating Voltage (Vmp/V)	32.33 30.2	32.15 30.0	31.96 29.9	31.78 29.7	31.59 29.6
Optimum Operating Current (Imp/A)	13.30 10.89	13.22 10.82	13.14 10.75	13.06 10.68	12.98 10.60
Open Circuit Voltage (Voc/V)	38.72 36.8	38.59 36.6	38.46 36.5	38.33 36.4	38.20 36.3
Short Circuit Current (Isc/A)	14.25 11.49	14.17 11.42	14.09 11.36	14.01 11.30	13.93 11.23
Module Efficiency (%)	22.0	21.8	21.5	21.3	21.0

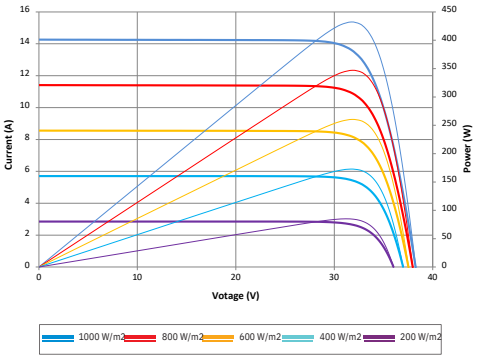
STC: Irradiance 1000 W/m2, module temperature 25 °C, AM=1.5; NMOT: Irradiance 800 W/m2 , ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%;

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

Graphs

Current-Voltage & Power-Voltage Curve (430S)



Packing Configuration

Container	40 ' HC
Pieces per pallet	36
Pallets per container	26
Pieces per container	936
Packaging box dimensions	1755×1120×1255 mm
Packaging box weight	794 kg

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.