



Ultra V Pro mini

HALF-CELL N-Type TOPCon MONOFACIAL MODULE

TYPE: STPXXXS - C54/Nshm

POWER OUTPUT MAX EFFICIENCY

415W 22.0%

25 Yr Full Product & Output Warranty

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



Suntech current sorting process

Up to ${\bf 2}$ % power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output



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



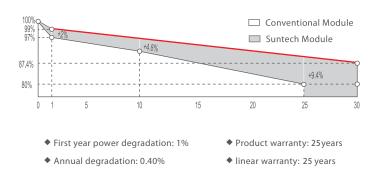
Excellent weak light performance More power output in weak light condition, such as cloudy, morning



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

Industry-leading Warranty **

and sunset



Certifications and Standards

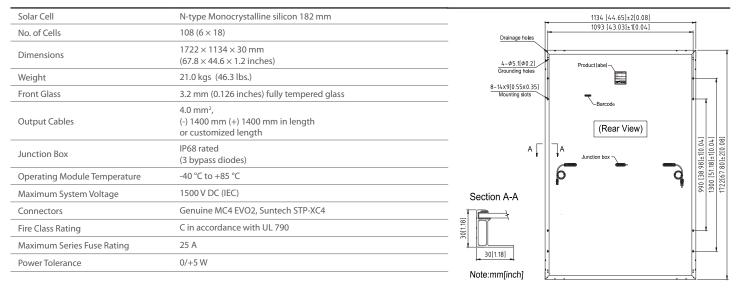
CE IEC	61730 IEC 61215
SA 8000	Social Responsibility Standards
ISO 9001	Quality Management System
ISO 14001	Environment Management System
ISO 45001	Occupational Henlth and Safety





Ultra V Pro STPXXXS - C54/Nshm 415w

Mechanical Characteristics



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								
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	2.0	2	1.8	2	1.5	2	1.3	2	1.0

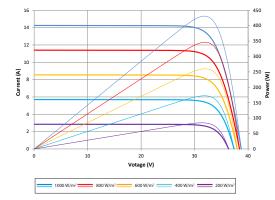
STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerances of Pmax , Voc and Isc are within +/- 3%.

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		

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 ka				



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

Graphs

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.