

# Ultra V mini

## HALF-CELL MONOFACIAL MODULE

TYPE: STPXXXS - C54/Umh



POWER OUTPUT      MAX EFFICIENCY  
**410-430W**      **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



**Suntech current sorting process**  
 Up to **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) \*

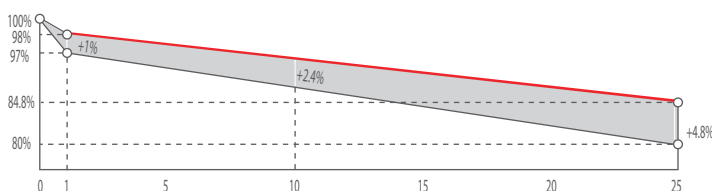


**Excellent weak light performance**  
 More power output in weak light condition, such as cloudy, morning and sunset



**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: 2%
- ◆ Annual degradation: 0.55%
- ◆ Product warranty: 15 years
- ◆ linear warranty: 25 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



**Munich RE** \*\*\*\*

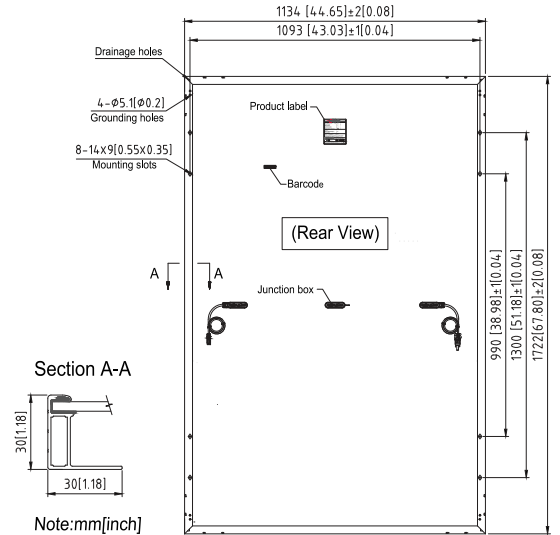
\* Please refer to Suntech Standard Module Installation Manual for details.  
 \*\* Please refer to Suntech Limited Warranty for details.

\*\*\*\* Suntech reserves the right to the final interpretation of the warranty by Munich Re.

\*\*\* WEEE only for EU market.  
 made in China

### Mechanical Characteristics

Solar Cell	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 mm <sup>2</sup> , (-) 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	Genuine MC4 EVO2, Suntech STP-XC4
Fire Class Rating	C in accordance with UL 790
Maximum Series Fuse Rating	25 A



### Electrical Characteristics

Module Type	STP430S-C54/Umh		STP425S-C54/Umh		STP420S-C54/Umh		STP415S-C54/Umh		STP410S-C54/Umh	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	430	324.8W	425	321.2W	420	317.5	415	313.8	410	309.6
Optimum Operating Voltage (Vmp/V)	32.43	29.9V	32.25	29.7V	32.01	29.5	31.81	29.3	31.59	29.2
Optimum Operating Current (Imp/A)	13.26	10.87A	13.18	10.82A	13.12	10.77	13.05	10.71	12.98	10.62
Open Circuit Voltage (Voc/V)	38.26	35.9V	38.08	35.8V	37.86	35.6	37.67	35.4	37.45	35.2
Short Circuit Current (Isc/A)	14.17	11.43A	14.1	11.38A	14.03	11.32	13.95	11.25	13.88	11.16
Module Efficiency (%)	22.0		21.8		21.5		21.3		21.0	
Power Tolerance	0/+5 W		0/+5 W		0/+5 W		-5W/+5W		0/+5 W	

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5; NMOT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerances of Pmax, Voc and Isc are within +/- 3%.

### Temperature Characteristics

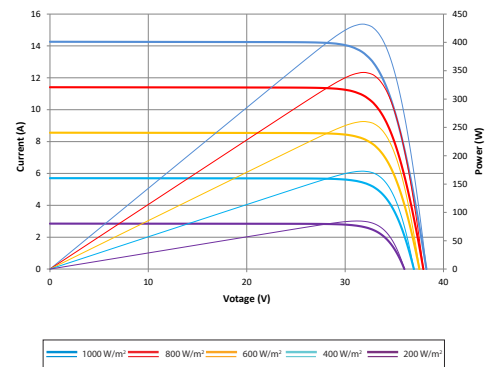
Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.34%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	0.050%/°C

### Packing Configuration

Container	40' HC
Pieces per pallet	36
Pallets per container	26
Pieces per container	936
Packaging box dimensions	1755×1130×1255 mm
Packaging box weight	794 kg

### Graphs

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



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.