





HALF-CELL MONOFACIAL MODULE

TYPE: STPXXXS - C54/Umhm

395-415W 21.3%

POWER OUTPUT

MAX EFFICIENCY



Flexible Module Design

Small panel design, light in weight, flexible in transportation and



Lower operating temperature

Lower operating temperature and temperature coefficient increase the power output



Withstand harsh environments

Reliable quality that makes module resistant even to high temperatures, salt water and ammonia



Extended wind and snow load tests

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















ISO 14001 **Environment Management System** ISO 45001 Occupational Health and Safety ISO 9001 Quality Management System SA 8000 Social Responsibility Standards IEC TS 62941Guideline for Module Design

IEC 61701 Salt-mist certification IEC 62716 ammonia certification IEC 60068-2-68 Dust and Sand IEC 61730-2 (UL790) fire class C











25 years of linear warranty

15 years of product warranty

[□] Conventional ☐ Suntech Module 15 0 1 25 First year power degradation 2% Annual degradation 0.55%

^{*} 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.





Mechanical Characteristics

Solar Cell	Monocrystalline silicon 182 mm	1134 [44.65]±2[0.08]
No. of Cells	108 (6 × 18)	1093 [43.03]±1[0.04]
Dimensions	1722 × 1134 × 30 mm (67.8 × 44.6 × 1.2 inches)	Drainage holes
Weight	21.0 kgs (46.3 lbs.)	4-Ø5.1(Ø0.2) Product label
Front Glass	3.2 mm (0.126 inches) fully tempered glass	Grounding holes
Output Cables	4.0 mm², (-) 350 mm (+) 160 mm in length or customized length	8-14x9(0.55x0.35) Mounting slots
Junction Box	IP68 rated (3 bypass diodes)	(Rear View)
Operating Module Temperature	-40 °C to +85 °C	A A
Maximum System Voltage	1500 V DC (IEC)	Junction box 3 18 36 18 18 18 18 18 18 18 1
Connectors	MC4-EVO2	
Maximum Series Fuse Rating	25 A	Section A-A
Power Tolerance	0/+5 W	301.18
Frame	Anodized aluminum alloy frame	
Packing Configuration	36 Pieces per pallet 936 Pieces per container /40'HC 1755×1120×1255 794kg	Note:mm[inch]

Electrical Characteristics

Module Type	STP415S-C	54/Umhm	STP410S-0	54/Umhm	STP405S-C	54/Umhm	STP400S-C	54/Umhm	STP395S-C	54/Umhm
Testing Condition	STC	NMOT								
Maximum Power (Pmax/W)	415	314.9	410	311.2	405	307.6	400	303.7	395	300.0
Optimum Operating Voltage (Vmp/V)	31.81	29.4	31.59	29.2	31.38	29.0	31.18	28.8	30.98	28.7
Optimum Operating Current (Imp/A)	13.05	10.70	12.98	10.65	12.91	10.60	12.83	10.53	12.76	10.47
Open Circuit Voltage (Voc/V)	37.67	35.5	37.45	35.3	37.24	35.1	37.04	34.9	36.84	34.7
Short Circuit Current (Isc/A)	13.95	11.25	13.88	11.20	13.81	11.14	13.73	11.08	13.66	11.02
Module Efficiency (%)	2	1.3	2	1.0	20	0.7	20	0.5	20	0.2

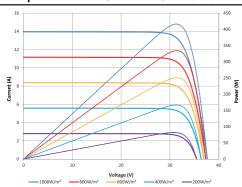
STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%;

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 ℃
Temperature Coefficient of Pmax	-0.34%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	+0.050%/°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 (415W)



Information bar

