





HALF-CELL N-Type TOPCon FULL-BLACK DOUBLE GLASS MONOFACIAL MODULE TYPE:STPXXXS-H48-Nfb+

435-455W 22.8%

POWER OUTPUT

MAX EFFICIENCY



Aesthetic appearance design

Elegant design in all-black appearance, harmonious integration with the components of the building to provide an intense aesthetic experience



Lightweight double glass

Lightweight double glass structure which effectively reduces the rate of module breakage. The ideal module size and weight make handling and installation easier



Withstand harsh environments

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



Superior load-bearing capability

Module certified to withstand 5400 Pa front side max static test load and 2400 Pa rear side max static test load.*















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

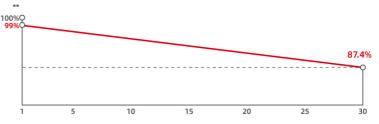
IEC 61701 Salt-mist Certification IEC 62716 Ammonia Certification

IEC 60068-2-68 Dust and Sand IEC 61730-2 (UL790) Fire Class C





30 years of linear warranty 25 years of product warranty



First year power degradation 1% Annual degradation 0.40%

^{*} 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

1134 [44.65]±2[0.08] 1093 [43.03]±1[0.04]	
1093 [43.03]±1[0.04]	
roduct label code	
(Rear View)	
	[0.08] [0.08]
Junction box	990 [39.0]±2[0.08] 1300 [51.2]±2[0.08] 762 [69.4]±2[0.08]
¥	13
4	
rc	rcode

Electrical Characteristics (STC)

Module Type	STP455S-H48-Nfb+	STP450S-H48-Nfb+	STP445S-H48-Nfb+	STP440S-H48-Nfb+	STP435S-H48-Nfb+
Maximum Power (Pmax/W)	455	450	445	440	435
Optimum Operating Voltage (Vmp/V)	30.21	30.04	29.86	29.68	29.51
Optimum Operating Current (Imp/A)	15.06	14.98	14.90	14.82	14.74
Open Circuit Voltage (Voc/V)	35.57	35.37	35.17	34.97	34.77
Short Circuit Current (Isc/A)	16.00	15.92	15.84	15.76	15.68
Module Efficiency (%)	22.8	22.5	22.3	22.0	21.8

STC: lrradiance 1000 W/m², module temperature 25 °C, AM=1.5; Measuring tolerance of Pmax, Voc, Isc is within +/- 3%;

Temperature Characteristics

Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.046%/℃

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 (450W)

