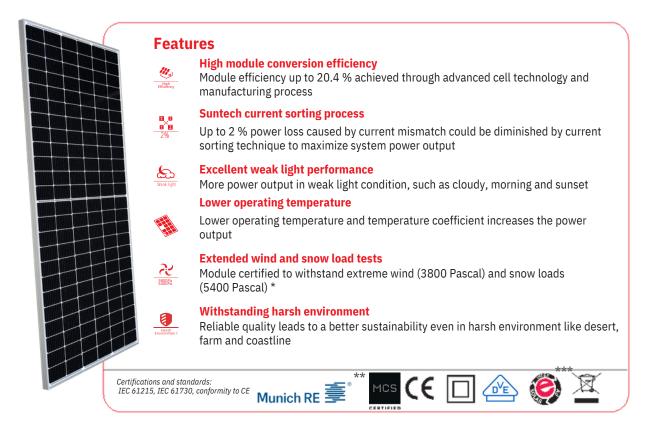


Ultra S 144 HALF-CELL BIFACIAL MODULE



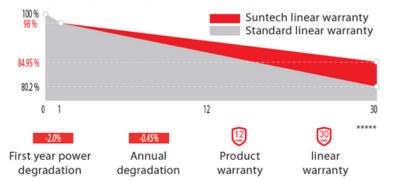


Trust Suntech to Deliver Reliable Performance Over Time

- · World-class manufacturer of crystalline silicon photovoltaic modules
- Rigorous quality control meeting the highest international standards: ISO 9001, ISO 14001 and ISO17025
- Regular independently checked production process from international accredited institute/company
- Tested for harsh environments (IEC 61701, IEC 62716, DIN EN 60068-2-68)

- · Long-term reliability tests
- + $2 \times 100\%$ EL inspection ensuring defect-free modules





High efficiency Bifacial cell



By using bifacial cell and double glass technology, the frontside power can reach to 445 W, and the backside power generation can increase up to 25%.

IP68 Rated Junction Box



The Suntech IP68 rated junction box ensures an outstanding waterproof level, supports installations in all orientations and reduces stress on the cables.

* Please refer to Suntech Standard Module Installation Manual for details. ** Suntech reserves the right to the final interpretation of the warranty by Munich Re. *** WEEE only for EU market. **** Please refer to Suntech Product Near-coast Installation Guide for details. **** Please refer to Suntech Limited Warranty for details.

Electrical Characteristics

STC	STPXXXS-B72/Pnh+				
Maximum Power at STC (Pmax)	445 W	440 W	435 W	430 W	425 W
Optimum Operating Voltage (Vmp)	41.2 V	41.0 V	40.8 V	40.6 V	40.4 V
Optimum Operating Current (Imp)	10.81 A	10.74 A	10.67 A	10.60 A	10.52 A
Open Circuit Voltage (Voc)	49.0 V	48.8 V	48.6 V	48.4 V	48.2 V
Short Circuit Current (Isc)	11.54 A	11.47 A	11.40 A	11.32 A	11.25 A
Module Efficiency	20.4%	20.2%	20.0%	19.7%	19.5%
Operating Module Temperature	-40 °C to +85 °C				
Maximum System Voltage	1500 V DC (IEC)				
Maximum Series Fuse Rating	20 A				
Power Tolerance	0/+5 W				

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; Tolerance of Pmax is within +/- 3%. For tracker installation, the module could withstand maximum 1600Pa at both front and rear side.

NMOT	STPXXXS-B72/Pnh+				
Maximum Power at NMOT (Pmax)	335.8 W	332.7 W	327.7 W	324.6 W	319.6 W
Optimum Operating Voltage (Vmp)	38.0 V	37.8 V	37.6 V	37.5 V	37.3 V
Optimum Operating Current (Imp)	8.84 A	8.78 A	8.73 A	8.67 A	8.58 A
Open Circuit Voltage (Voc)	46.0 V	45.8 V	45.5 V	45.4 V	45.2 V
Short Circuit Current (Isc)	9.31 A	9.25 A	9.20 A	9.13 A	9.07 A

NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s.

Electrical Characteristics with Different	ent Rearside Pow	er Gain (Reference	to 435 W Front)
Rearside Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	457 W	500 W	544 W
Optimum Operating Voltage (Vmp)	40.8 V	40.8 V	40.9 V
Optimum Operating Current (Imp)	11.20 A	12.27 A	13.34 A
Open Circuit Voltage (Voc)	48.6 V	48.6 V	48.7 V
Short Circuit Current (lsc)	11.97 A	13.11 A	14.25 A
Module Efficiency	21.0%	22.9%	24.9%

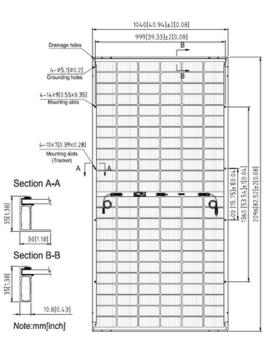
Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.304%/°C
Temperature Coefficient of Isc	0.050%/°C

Mechanical Characteristics

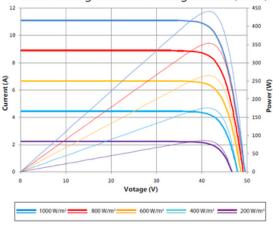
Solar Cell	Monocrystalline silicon 166 mm
No. of Cells	144 (6 × 24)
Dimensions	2096 × 1040 × 35 mm (82.5 × 40.9 × 1.4 inches)
Weight	28.1 kgs (61.9 lbs.)
Front \Back Glass	2.0 +2.0 mm(0.079 +0.079 inches) semi-tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated
Output Cables	4.0 mm², Portrait: (-) 350 mm and (+) 160 mm in length or customized length
Connectors	MC4 EVO2, Cable 01S
Refer. Bifaciality Facto	r (70 ± 5)%

Packing Configuration

Container	20' GP	40' HC	
Pieces per pallet	31	31	
Pallets per container	5	22	
Pieces per container	155	682	
Packaging box dimensions	2125 × 1130 × 1205 mm		
Packaging box weight	926 kg		



Current-Voltage & Power-Voltage Curve (445S)



Dealer information

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.



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