



440-460W

STPXXXS - B72/Vnh



Trust Suntech to Deliver Reliable Performance Over Time

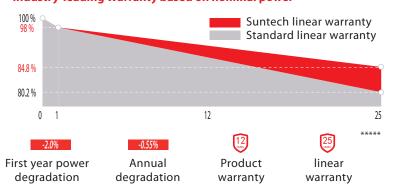
- World-class manufacturer of crystalline silicon photovoltaic modules
- Rigorous quality control meeting the highest international standards: ISO 9001, ISO 14001 and ISO17025
- Regular independently checked production process from international accredited institute/company
- Tested for harsh environments (IEC 61701, IEC 62716, DIN EN 60068-2-68)
- · Long-term reliability tests
- 2 × 100% EL inspection ensuring defect-free modules

Special Cell Design



The unique cell design leads to reduced electrodes resistance and smaller current, thus enables higher fill factor. Meanwhile, it can reduce losses of mismatch and cell wear, and increase total reflection.

Industry-leading Warranty based on nominal power



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 Manual for details.

^{*****} Please refer to Suntech Product Warranty for details.



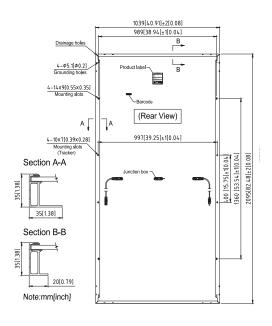
Electrical Characteristics

STC	STPXXXS-B72/Vnh				
Maximum Power at STC (Pmax)	460W	455W	450W	445W	440W
Optimum Operating Voltage (Vmp)	41.8V	41.6V	41.4V	41.2V	41.0V
Optimum Operating Current (Imp)	11.01A	10.94A	10.87A	10.81A	10.74A
Open Circuit Voltage (Voc)	49.6V	49.4V	49.2V	49.0V	48.8V
Short Circuit Current (Isc)	11.74A	11.67A	11.61A	11.54A	11.47A
Module Efficiency	21.1%	20.9%	20.7%	20.4%	20.2%
Operating Module Temperature	-40 °C to +85 °C				
Maximum System Voltage	1000/1500 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/Vnh				
Maximum Power at NMOT (Pmax)	346.9W	343.1W	339.4W	335.8W	332.7W
Optimum Operating Voltage (Vmp)	38.5V	38.4V	38.2V	38.0V	37.8V
Optimum Operating Current (Imp)	9.00A	8.94A	8.89A	8.84A	8.78A
Open Circuit Voltage (Voc)	46.5V	46.3V	46.2V	46.0V	45.8V
Short Circuit Current (Isc)	9.47A	9.42A	9.37A	9.31A	9.25A





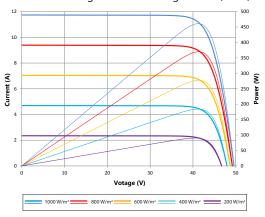
Temperature Characteristics

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	2095 × 1039 × 35 mm (82.5 × 40.9 × 1.4 inches)
Weight	24.5 kgs (54.0 lbs.)
Front Glass	3.2 mm (0.13 inches) fully tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm², Portrait: (-) 350 mm and (+) 160 mm in length or customized length
Connectors	1000V: MC4 , Cable01 1500V: MC4 EVO2, Cable01S

Current-Voltage & Power-Voltage Curve (460S)



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	814 kg		

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.