

Ultra S STPXXXS - B72/Pnh+ 435-455W

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 166 mm
No. of Cells	144 (6 × 24)
Dimensions	2096 × 1040 × 30 mm (82.5 × 40.9 × 1.2 inches)
Weight	28.1 kgs (61.9 lbs.)
Front \ Back Glass	2.0+2.0 mm (0.079+ 0.079inches) semi-tempered glass
Output Cables	4.0 mm ² , (-) 350 mm and (+) 160 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)
Maximum Series Fuse Rating	20 A
Power Tolerance	0/+5 W
Refer. Bifaciality Factor	(70 ± 5)%

Packaging box dimensions (mm) : 2125×1130×1205

Packing Configuration	Packaging box weight (kg): 1067 36 Pieces per pallet 180 Pieces per container / 20' GP 792 Pieces per container / 40' HC
-----------------------	--

For tracker installation, please turn to Suntech for mechanical load information.

30(118)

Electrical Characteristics

Module Type	STP, S-B72/Pnh+	STP, S-B72/Pnh+	STP, S-B72/Pnh+
Testing Condition	STC	NMOT	STC
Maximum Power (Pmax/W)	455	343.1	450
Optimum Operating Voltage (Vmp/V)	41.6	38.4	41.4
Optimum Operating Current (Imp/A)	10.94	8.94	10.87
Open Circuit Voltage (Voc/V)	49.4	46.3	49.2
Short Circuit Current (Isc/A)	11.67	9.42	11.61
Module Efficiency (%)	20.9		20.6

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 ±1%

Different Rearside Power Gain Reference to 445S Front

Rearside Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	467.3	511.8	556.3
Optimum Operating Voltage (Vmp/V)	41.2	41.2	41.3
Optimum Operating Current (Imp/A)	11.35	12.43	13.51
Open Circuit Voltage (Voc/V)	49.0	49.0	49.1
Short Circuit Current (Isc/A)	12.12	13.27	14.43
Module Efficiency (%)	21.4	23.5	25.5

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

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 notice. 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 not considered as defects.