

HALF-CELL BIFACIAL MODULE

TYPE: STPXXXS - B72/Pnh+

POWER OUTPUT 435-455W

MAX EFFICIENCY 20.9%

Features

High Efficiency High module conversion e ciency Module e ciency up to ... achieved through advanced cell technology and manufacturing process

2%

Suntech current sorting process

Up to, power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output



Excellent weak light performance More power output in weak light condition, such as cloudy, morning and surset Harsh Environment

Withstanding harsh environment Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

Module certi ed to withstand extreme wind (... Pascal) and

Lower operating temperature and temperature coe cient

Lower operating temperature

Extended wind and snow load tests

increases the power output

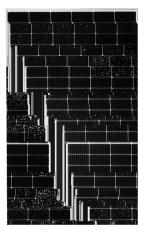
snow loads (, . . Pascal) *

Industry-leading Warranty **

Certi cations and Standards

Social Responsibility Standards Quality Management System Environment Management System

Guideline for module design qualication and type approvel



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 mm², (-) 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 Con guration	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 med	hanical load information.		

Electrical Characteristics

Module Type	STP,	S-B72/Pnh+	STP, .	S-B72/Pnh+	STP, ,	S-B72/Pnh+
Testing Condition	STC	NMOT	STC	NMOT	STC	NMO
Maximum Power (Pmax/W)	455	343.1	450	339.4	445	335.8
Optimum Operating Voltage (Vmp/V)	41.6	38.4	41.4	38.2	41.2	38.0
Optimum Operating Current (Imp/A)	10.94	8.94	10.87	8.89	10.81	8.84
Open Circuit Voltage (Voc/V)	49.4	46.3	49.2	46.2	49.0	46.0
Short Circuit Current (Isc/A)	11.67	9.42	11.61	9.37	11.54	9.31
Module E ciency (%)		20.9		20.6		20.4

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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 wi

Di erent Rearside Power Gain Reference to 4455 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 E ciency (%)	21.4	23.5	25.5

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coe cient of Pmax	-0.36%/°C
Temperature Coe cient of Voc	-0.304%/°C
Temperature Coe cient 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 a with standard EN 50380. Color di erences of the modules relative to the gures as well as discolorations of *i* in the modules which do not impair their proper functioning are