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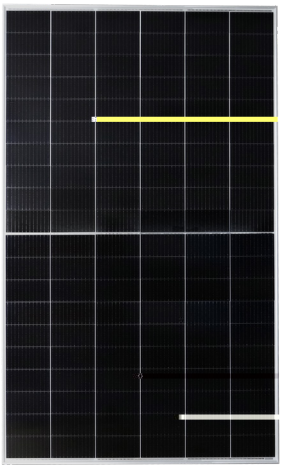


HALF-CELL BIFACIAL MODULE

TYPE: STPXXXS - D60/Pmh+

POWER OUTPUT
580-600W

MAX EFFICIENCY
21.2%

Features

High module conversion e□ciency
Module e□ciency up to **21.2%** achieved through advanced cell technology and manufacturing process

Lower operating temperature
Lower operating temperature and temperature coe□cient increases the power output

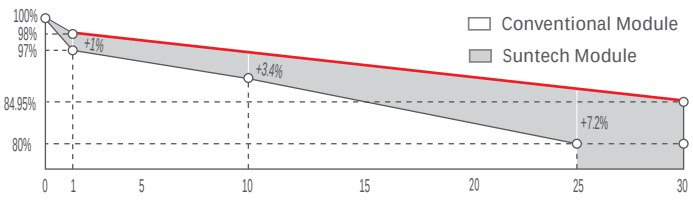
Suntech current sorting process
Up to **2%** power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output

Extended wind and snow load tests
Module certi□ed to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal) *

Excellent weak light performance
More power output in weak light condition, such as cloudy, morning and sunset

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

Industry-leading Warranty **



Certi□cations and Standards

CE IEC 61730 IEC 61215
SA 8000 Social Responsibility Standards
ISO 9001 Quality Management System
ISO 14001 Environment Management System
ISO 45001 Occupational Henlth and Safety
IEC TS 62941 Guideline for module design qualification and type approval

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UltraV STPXXXS - D60/Pmh+ 580-600W

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 210 mm
No. of Cells	120 (6 × 20)
Dimensions	2172 × 1303 × 35 mm (85.5 × 51.3 × 1.4 inches)
Weight	37.1 kgs (81.8 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	30 A
Power Tolerance	0/+5 W
Refer. Bifaciality Factor	(70 ± 5)%
Packing Con□guration	Packaging box dimensions (mm) : 1325×1120×2298 Packaging box weight (kg) : 1188 31 Pieces per pallet 558 Pieces per container / 40 'HC

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

Electrical Characteristics

Module Type	STP**600**S-D60/Pmh+		STP**595**S-D60/Pmh+		STP**590**S-D60/Pmh+		STP**585**S-D60/Pmh+		STP**580**S-D60/Pmh+	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	600	452.5	595	448.9	590	445.0	585	441.4	580	437.5
Optimum Operating Voltage (Vmp/V)	34.65	32.4	34.45	32.2	34.25	32.0	34.05	31.9	33.85	31.7
Optimum Operating Current (Imp/A)	17.32	13.97	17.28	13.94	17.23	13.89	17.19	13.86	17.14	13.81
Open Circuit Voltage (Voc/V)	41.85	39.4	41.65	39.2	41.45	39.1	41.25	38.9	41.05	38.7
Short Circuit Current (Isc/A)	18.31	14.73	18.27	14.7	18.22	14.66	18.18	14.63	18.13	14.59
Module E□ciency (%)	21.2		21.0		20.8		20.7		20.5	

STC: Irradiance 1000 W/m^2, module temperature 25 °C, AM=1.5; NMOT: Irradiance 800 W/m^2, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%;

Di□erent Rearside Power Gain

Reference to 590S Front

Rearside Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	619.5	678.5	737.5
Optimum Operating Voltage (Vmp/V)	34.25	34.25	34.35
Optimum Operating Current (Imp/A)	18.09	19.81	21.54
Open Circuit Voltage (Voc/V)	41.5	41.5	41.6
Short Circuit Current (Isc/A)	19.13	20.95	22.78
Module E□ciency (%)	21.9	24.0	26.1

Graphs

Current-Voltage & Power-Voltage (600S)

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coe□cient of Pmax	-0.34%/°C
Temperature Coe□cient of Voc	-0.26%/°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 announcement. The speci□cations may vary slightly . All speci□cations are in accordance with standard EN 50380. Color di□erences of the modules relative to the □gures 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 speci□cation.