SUNTECH

Ultra X

HALF-CELL MONOFACIAL MODULE

TYPE: STPXXXS - D60/Wmh

POWER OUTPUT
580-600W

MAX EFFICIENCY
21.2%

Features

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

Lower operating temperature
Lower operating temperature and temperature coefficient increases the power output

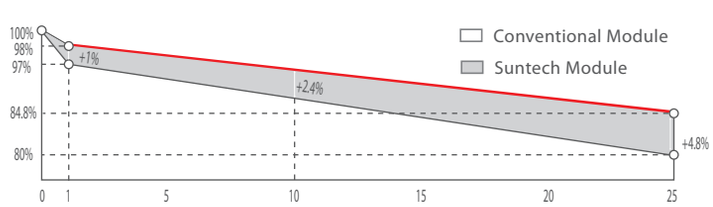
Suntech current sorting process
Up to **2%** power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output

Extended wind and snow load tests
Module certified 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 **



- First year power degradation: 2%
- Annual degradation: 0.55%
- 25 years of linear warranty
- 12 years of product warranty

Certifications 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 Health and Safety

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Munich RE ****

* Please refer to Suntech Standard Module Installation Manual for details.
** Please refer to Suntech Limited Warranty for details.

**** Suntech reserves the right to the final interpretation of the warranty by Munich Re.

*** WEEE only for EU market.
made in China

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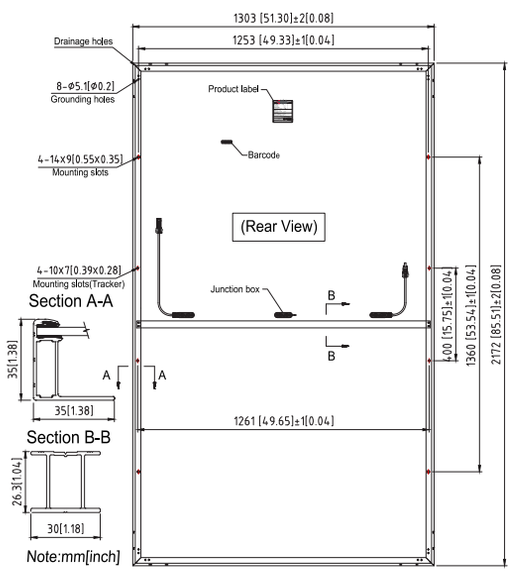
Mechanical Characteristics

Solar Cell	Monocrystalline silicon 210 mm
No. of Cells	144 (6 × 24)
Dimensions	2172 × 1303 × 35 mm (85.5 × 51.3 × 1.4 inches)
Weight	31.5 kgs (69.4 lbs.)
Front Glass	3.2 mm (0.126 inches) fully tempered glass
Output Cables	4.0 mm^2, (-) 350 mm (+) 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)
Connectors	Genuine MC4 EVO2, Suntech STP-XC4-4
Fire Class Rating	C in accordance with UL 790
Maximum Series Fuse Rating	30 A
Power Tolerance	0/+5 W

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



Electrical Characteristics

Module Type	STP**600**S-D60/Wmh		STP**595**S-D60/Wmh		STP**590**S-D60/Wmh		STP**585**S-D60/Wmh		STP**580**S-D60/Wmh	
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	14.70	18.22	14.66	18.18	14.63	18.13	14.59
Module Efficiency (%)	21.2		21.0		20.8		20.7		20.5	

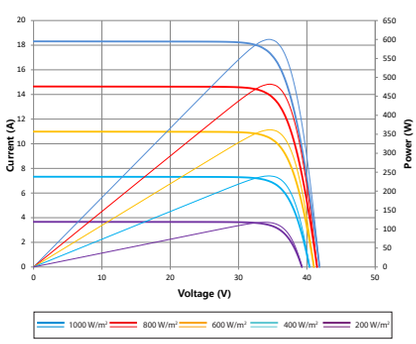
STC: Irradiance 1000 W/m^2, module temperature 25 °C, AM=1.5; NMOT: Irradiance 800 W/m^2, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerances of Pmax , Voc and Isc are within +/- 3% .

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.34%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	0.050%/°C

Graphs

Current-Voltage & Power-Voltage Curve (600S)



Packing Configuration

Container	40 ' HC
Pieces per pallet	31
Pallets per container	18
Pieces per container	558
Packaging box dimensions	1325 × 1120 × 2298 mm
Packaging box weight	1015 kg

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.