STP250S - 20/Wdb

SUNTECH

250 Watt
MONOCRYSTALLINE SOLAR MODULE

Features

High module conversion efficiency
Module efficiency up to 15.4% achieved through advanced cell technology and manufacturing capabilities

Self-cleaning & anti-reflective
Higher module efficiency from anti-reflective, hydrophobic layer with higher light absorption and minimal surface dust

Positive tolerance
Guaranteed positive tolerance of up to 5% delivers higher outputs

Excellent weak light performance
Excellent performance under low light conditions

Extended wind and snow load tests
Module certified to withstand extreme wind (3800 Pascal) and snow loads (5400 Pascal) *

Suntech current sorting process
System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by amperage

Certifications and standards:
UL1703, IEC 61215, IEC 61730, conformity to CE

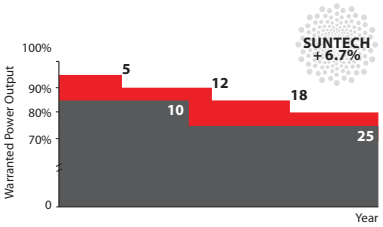
Trust Suntech to Deliver Reliable Performance Over Time

- World's no.1 manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001: 2008, ISO 14001: 2004 and ISO17025: 2005
- Tested for harsh environments (salt mist and ammonia corrosion testing: IEC 61701, DIN 50916:1985 T2)***

Compact and Durable Frame Design

Suntech`s new compact frame design is light-weight (3.5 lbs lighter) and easier to handle during installation. The rigid and durable hollow chamber guarantees the same long-term and reliable performance.

Industry-leading Warranty Based on Nominal Power



- Based on nominal power (Pnom)
- 25-year transferrable power output warranty: 5 years/95%, 12 years/90%, 18 years/85%, 25 years/80% ****
- Warrants 6.7% more than the market standard over 25 years
- 10-year material and workmanship warranty

Reliable IP67 Rated Junction Box

Supports installations in multiple orientations. High performance, low resistance connectors ensure maximum output for the highest energy production.

* Please refer to Suntech Standard Module Installation Manual for details. **PV Cycle only for EU market.
*** Please refer to Suntech Product Near-coast Installation Manual for details. **** Please refer to Suntech Product Warranty for details.

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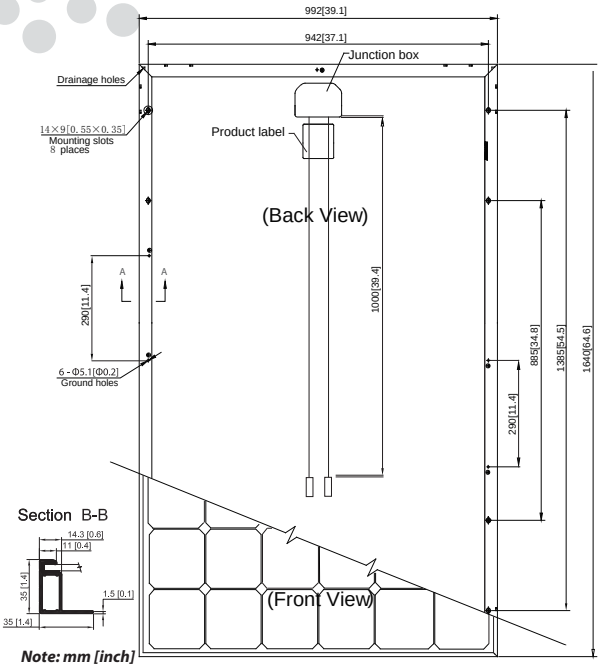


Electrical Characteristics

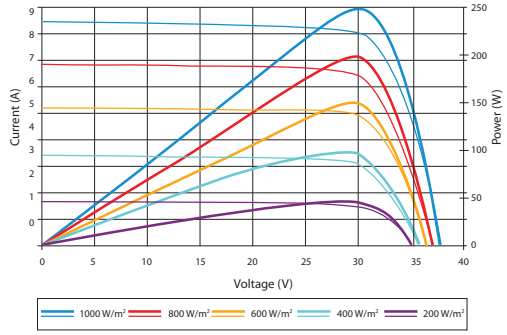
STC	STP250S-20/Wdb
Optimum Operating Voltage (Vmp)	30.7 V
Optimum Operating Current (Imp)	8.15 A
Open Circuit Voltage (Voc)	37.4 V
Short Circuit Current (Isc)	8.63 A
Maximum Power at STC (Pmax)	250 W
Module Efficiency	15.4%
Operating Module Temperature	-40 °C to +85 °C
Maximum System Voltage	1000 V DC (IEC) / 600V DC (UL)
Maximum Series Fuse Rating	20 A
Power Tolerance	0/+5 %

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

NOCT	STP250S-20/Wdb
Maximum Power at NOCT (Pmax)	184 W
Optimum Operating Voltage (Vmp)	28.1 V
Optimum Operating Current (Imp)	6.55 A
Open Circuit Voltage (Voc)	34.7 V
Short Circuit Current (Isc)	6.97 A

NOCT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

Current-Voltage & Power-Voltage Curve (250S-20)



Excellent performance under weak light conditions: at an irradiation intensity of 200 W/m² (AM 1.5, 25 °C), 95.5% or higher of the STC efficiency (1000 W/m²) is achieved

Temperature Characteristics

Nominal Operating Cell Temperature (**NOCT**)	45±2°C
Temperature Coefficient of Pmax	-0.45 %/°C
Temperature Coefficient of Voc	-0.34 %/°C
Temperature Coefficient of Isc	0.050 %/°C

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 156 × 156 mm (6 inches)
No. of Cells	60 (6 × 10)
Dimensions	1640 × 992 × 35mm (64.6 × 39.1 × 1.4 inches)
Weight	18.2 kgs (40.1 lbs.)
Front Glass	3.2 mm (0.13 inches) tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67 rated (3 bypass diodes)
Output Cables	TUV (2Pfg1169:2007), UL 4703, UL44
	4.0 mm² (0.006 inches²), symmetrical lengths (-) 1000mm (39.4 inches) and (+) 1000 mm (39.4 inches)
Connectors	MC4 connectors

Dealer information

Packing Configuration

Container	20′ GP	40′ HC
Pieces per pallet	28	28
Pallets per container	6	28
Pieces per container	168	784

Specifications are subject to change without further notification