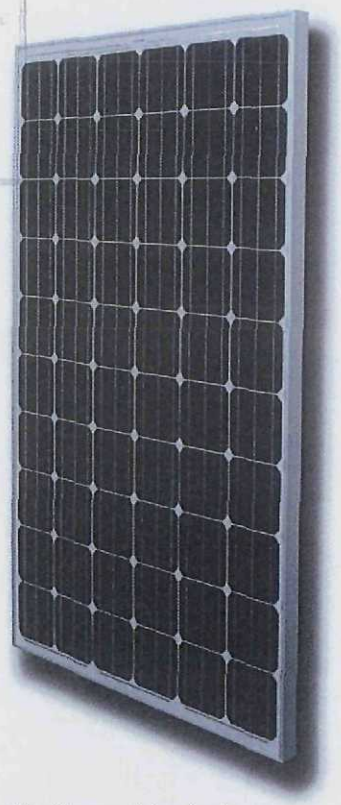
STP245S - 20/Wd
STP240S - 20/Wd

SUNTECH
Solar powering a green future™

245 Watt
MONOCRYSTALLINE SOLAR MODULE

Plan
14 DEC 2011
Ref: 0994-11



Features

High module conversion efficiency
(up to 14.8%), through superior cell technology and leading manufacturing capability

Positive tolerance
Guaranteed positive tolerance from 0~5% ensures power output reliability

Suntech's TruPower™
Suntech's TruPower™ process neutralizes the initial LID effect

Excellent weak light performance
Excellent performance under low light environments (mornings, evenings, and cloudy days)

Withstand high wind and snow loads
Entire module certified to withstand high wind loads (2400 Pascal) and snow loads (5400 Pascal) *

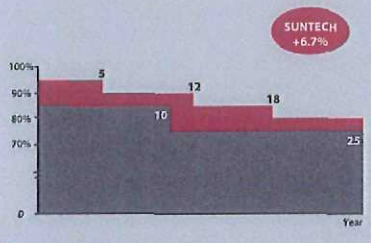
Suntech current sorting process
All Suntech modules sorted and packaged by amperage, maximizing system output by reducing mismatch losses by up to 2%

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

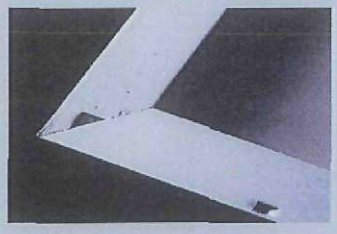
Trust Suntech to Deliver Reliable Performance Over Time

- 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 and ISO 14001: 2004

Industry-leading warranty



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



Specially designed drainage holes and rigid construction prevent frame from deforming or breaking due to freezing weather and other forces.

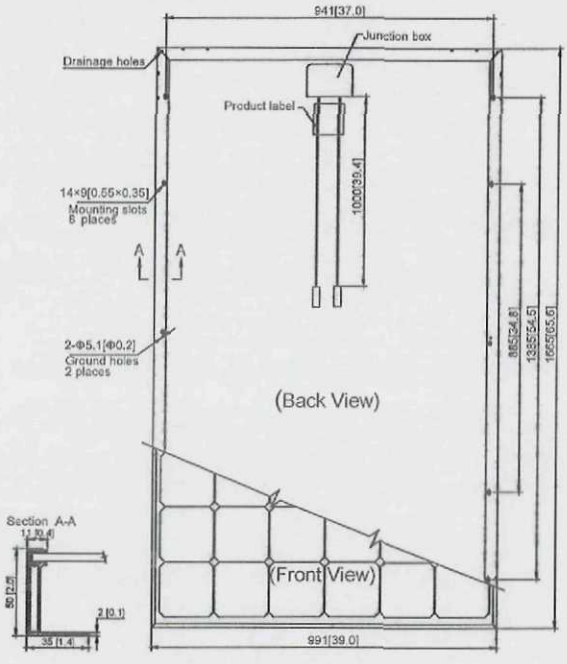


Latest IP67 rated junction box improves module performance stability. High performance connectors provide low resistance interconnection to ensure the full utilization of module power output.

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

©Copyright 2011 Suntech Power

STP245S - 20/Wd
STP240S - 20/Wd



Electrical Characteristics

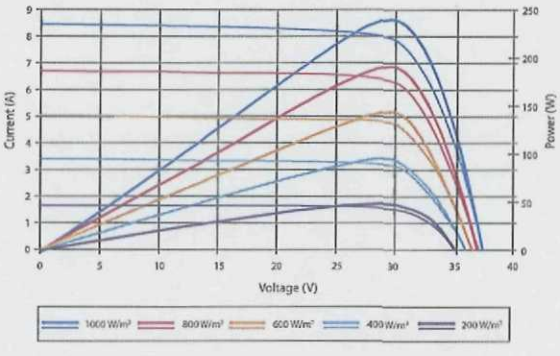
STC	STP245S-20/Wd	STP240S-20/Wd
Optimum Operating Voltage (Vmp)	30.5 V	30.2 V
Optimum Operating Current (Imp)	8.04 A	7.95 A
Open - Circuit Voltage (Voc)	37.3 V	37.2 V
Short - Circuit Current (Isc)	8.52 A	8.43 A
Maximum Power at STC (Pmax)	245 W	240 W
Module Efficiency	14.8%	14.5%
Operating Module Temperature	-40 °C to +85 °C	
Maximum System Voltage	1000 V DC (IEC) / 600 V DC (UL)	
Maximum Series Fuse Rating	20 A	
Power Tolerance	0/+5%	

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5
Power measurement tolerance: ± 3%

NOCT	STP245S-20/Wd	STP240S-20/Wd
Maximum Power (W)	180 W	177 W
Maximum Power Voltage (V)	27.9 V	27.6 V
Maximum Power Current (A)	6.45 A	6.40 A
Open Circuit Voltage (Voc)	34.3 V	34.2 V
Short Circuit Current (Isc)	6.89 A	6.81 A

NOCT: Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s
Power measurement tolerance: ± 3%

Current-Voltage & Power-Voltage Curve (240S-20)



Exellent 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

Mechanical Characteristics

Solar Cell	Monocrystalline 156 × 156 mm (6 inches)
No. of Cells	60 (6 × 10)
Dimensions	1665 × 991 × 50 mm (65.6 × 39.0 × 2.0 inches)
Weight	19.8 kgs (43.7 lbs.)
Front Glass	3.2 mm (0.13 inches) tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67 rated
Output Cables	TUV (2Pfg1169:2007), UL 4703, UL 44
	4.0 mm² (0.006 inches²), symmetrical lengths (-) 1000 mm (39.4 inches) and (+) 1000 mm (39.4 inches)
Connectors	RADOX® SOLAR integrated twist locking connectors

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

Packing Configuration

Container	20'GP	40'HC
Pieces per pallet	21	21
Pallets per container	6	28
Pieces per container	126	588

Dealer information

Specifications are subject to change without further notification