

205 Watt Maximum Power MONOCRYSTALLINE SOLAR PANEL

Suntech introduces the all new line of HiPerforma™ modules, featuring our new PLUTO™ cells. Check out all the advantages below:



10-15%

HiPerforma™ modules have 10-15% more module efficiency per unit compared to our conventional modules, so you enjoy lower installation and balance of system (BOS) costs



10-12%

Excellent performance under low light environments means that during mornings, evenings and cloudy days, HiPerforma™ modules can deliver up to 10-12% more electricity than conventional modules



2-5%

HiPerforma™ modules have better kWh / kW ratio and produce 2-5% more electricity in the field (depending on installation & weather conditions)



0-5W

High reliability with guaranteed 0/+5 W positive peak power tolerance (under STC)



5400Pa

Can withstand high wind-pressure and snow load, and extreme temperature variations (passed IEC 5400 Pa mechanical loading test)*



Lead-free

HiPerforma™ modules are lead free



Test result from Fraunhofer Institute for Solar Energy System (ISE) confirms conversion efficiency of 19.2% for monocrystalline cells in 205W module manufactured on Suntech mass production lines.



PLUTO™ Cell Technology Key Features

- Pluto cells have a sleek appearance due to extra fine cell fingers ~30µm which reduces surface shading and boosts sunlight absorption into the cell
- Pluto monocrystalline cells now undergo Suntech's proprietary Gallium-F22 doping process, which greatly inhibits initial Light Induced Degradation to < 1%. HiPerforma™ modules thus deliver better power and performance over time
- Pluto cells enjoy high shunt resistance (Rsh) which enhances low light performance
- Unique pyramid texturing technology reduces light reflection and helps more sunlight enter from oblique & grazing incidences, thus allowing Pluto cells to generate more field power output than conventional solar cells

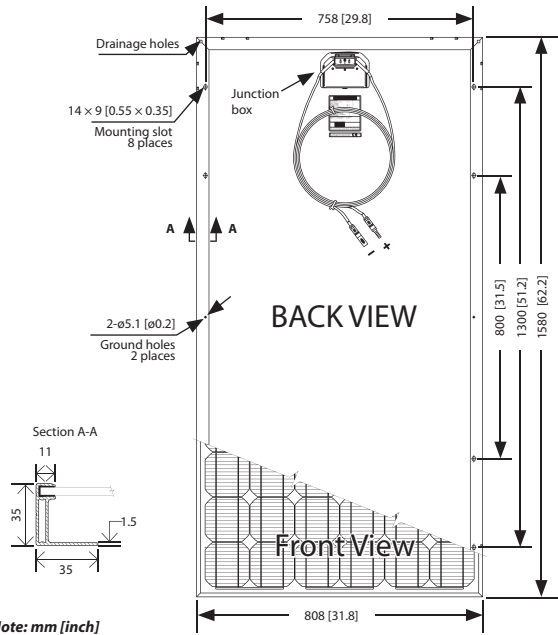
Quality and Safety

- Industry leading power output warranty (12/90%, 25/80%)**
- Rigorous quality control meeting the highest international standards
- ISO 9000:2008 (Quality Management System) and ISO 14001:2004 (Environmental Management System) certified factories manufacturing world class products

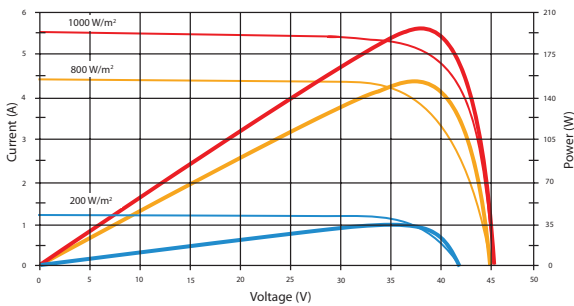
NOTES:

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

**Please refer to Suntech Product Warranty for details.



Current-Voltage & Power-Voltage Curve (195 W)



Please consult your local dealer for more information

Electrical Characteristics

Module Type	PLUTO 205-Ade	PLUTO 200-Ade	PLUTO 195-Ade
Open - Circuit Voltage (Voc)	45.8 V	45.7 V	45.4 V
Optimum Operating Voltage (Vmp)	38.1 V	37.9 V	37.6 V
Short - Circuit Current (Isc)	5.73 A	5.62 A	5.52 A
Optimum Operating Current (Imp)	5.38 A	5.28 A	5.19 A
Maximum Power at STC (Pmax)	205 W	200 W	195 W
Operating Temperature	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Maximum System Voltage	1000 V DC	1000 V DC	1000 V DC
Maximum Series Fuse Rating	15 A	15 A	15 A
Module Efficiency	16.10%	15.70%	15.30%
Power Tolerance	0 / +5 W	0 / +5 W	0 / +5 W

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5

Mechanical Characteristics

Solar Cell	Monocrystalline 125 × 125 mm (5 inches)
No. of Cells	72 (6 × 12)
Dimensions	1580 × 808 × 35 mm (62.2 × 31.8 × 1.4 inches)
Weight	15.5 kgs (34.1 lbs.)
Front Glass	3.2 mm (0.13 inches) tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67 rated
Output Cables	H+S Radox Solar Cable 4.0 mm ² (0.006 inches ²), symmetrical lengths (-) 880 mm (34.6 inches) and (+) 880 mm (34.6 inches), Radox Solar connectors

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45 ± 2 °C
Temperature Coefficient of Pmax	-0.38% / °C
Temperature Coefficient of Voc	-0.29% / °C
Temperature Coefficient of Isc	0.046% / °C

NOTES:
Specification is subject to change without further notice.