

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:



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



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



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



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



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



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

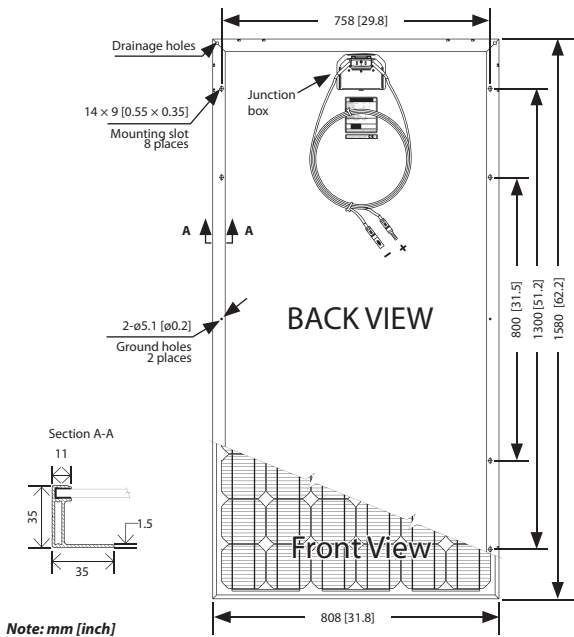
Quality and Safety

- 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

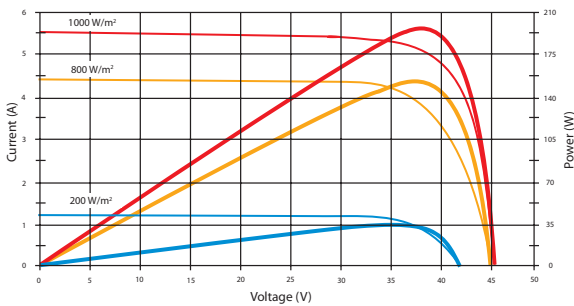
NOTES:

* 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.