

HiPerforma™ Module PLUTO225-Udm PLUTO220-Udm

NEW

SUNTECH
Solar powering a green future™

225 Watt

POLYCRYSTALLINE SOLAR MODULE

Suntech introduces the all new line of HiPerforma™ modules, featuring our new PLUTO™ cells.

Features



High module conversion efficiency (up to 15.3%), through superior manufacturing technology



Anti-reflective, hydrophobic coating improves light absorption and reduces surface dust



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



Guaranteed 0-5W positive power output tolerance ensures high reliability



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



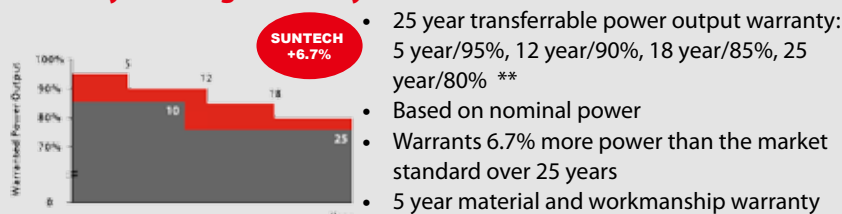
HiPerforma™ modules are lead free



Trust Suntech to Deliver Reliable Performance Over Time

- World's leading 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
- Certification and standards: IEC 61215, IEC 61730, conformity to CE

Industry-leading warranty



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

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

PLUTO™ Cell Technology Key Features

- Pluto cells have a sleek appearance due to extra fine cell fingers (~30µm) which reduce surface shading and boost sunlight absorption into the cell
- Pluto cells have high shunt resistance (Rsh) which enhances low light performance

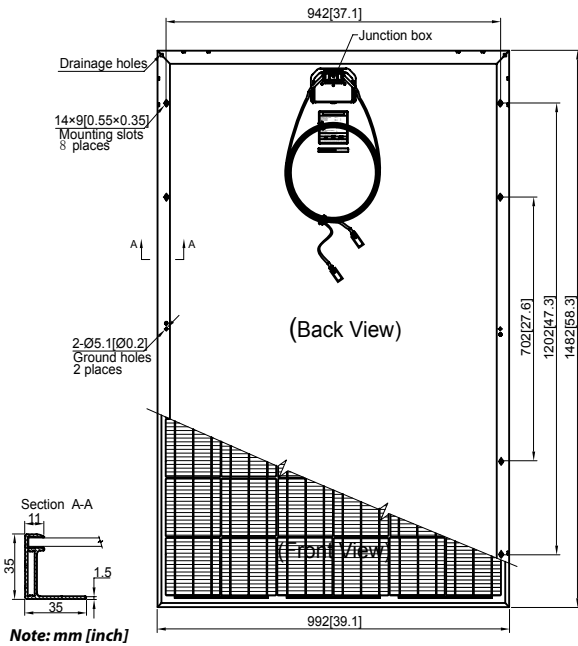


Specially designed drainage holes and rigid construction prevent frame from deforming or breaking due to freezing weather and other forces

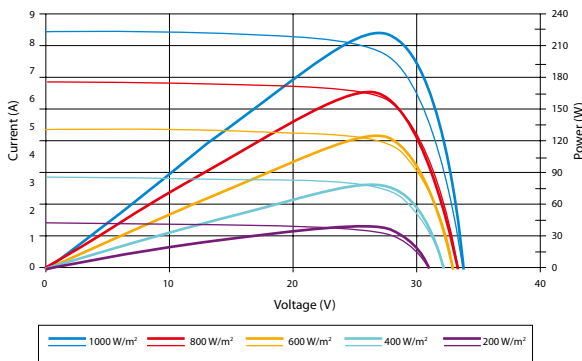


Latest IP67 rated junction box improves module performance stability with enhanced thermal isolation.

HiPerforma™ Module PLUTO225-Udm PLUTO220-Udm



Current-Voltage & Power-Voltage Curve (220 W)



Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.400%/°C
Temperature Coefficient of Voc	-0.314%/°C
Temperature Coefficient of Isc	0.051%/°C



Specifications are subject to change without further notification

Electrical Characteristics

STC	PLUTO225-Udm	PLUTO220-Udm
Optimum Operating Voltage (Vmp)	28.2 V	27.8 V
Optimum Operating Current (Imp)	7.99 A	7.92 A
Open - Circuit Voltage (Voc)	33.7 V	33.5 V
Short - Circuit Current (Isc)	8.50 A	8.40 A
Maximum Power at STC (Pmax)	225 W	220 W
Module Efficiency	15.3 %	15.0 %
Operating Temperature	-40°C to +85°C	-40°C to +85°C
Maximum System Voltage	1000 V DC	1000 V DC
Maximum Series Fuse Rating	20 A	20 A
Power Tolerance	0 / +5 W	0 / +5 W

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

NOCT	PLUTO225-Udm	PLUTO220-Udm
Maximum Power (W)	165 W	162 W
Maximum Power Voltage (V)	25.6 V	25.3 V
Maximum Power Current (A)	6.44 A	6.38 A
Open Circuit Voltage (Voc)	30.9 V	30.8 V
Short Circuit Current (Isc)	6.89 A	6.80 A
Efficiency Reduction (from 1000 W/m ² to 200 W/m ²)	<4%	<4%

NOCT: Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s

Mechanical Characteristics

Solar Cell	Polycrystalline 156 × 156 mm (6 inches)
No. of Cells	54 (6 × 9)
Dimensions	1482 × 992 × 35 mm (58.3 × 39.1 × 1.4 inches)
Weight	16.8 kgs (37.0 lbs.)
Front Glass	3.2 mm (0.13 inches) tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67 rated
Output Cables	H+S RADOX® SMART cable 4.0 mm ² (0.006 inches ²), symmetrical lengths (-) 1000 mm (39.4 inches) and (+) 1000 mm (39.4 inches), MC4 connectors

Packing Configuration

Container	20' GP	40' GP	40' HC
Pieces per pallet	26	26	26
Pallets per container	6	14	28
Pieces per container	156	364	728