

SM210D
SM205D

SUNNY
SOLAR SOLUTION

210 Watt

POLYCRYSTALLINE SOLAR MODULE

Features



High module conversion efficiency (up to 14.3%), through superior manufacturing technology



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



Three bus-bar design enhances cell reliability and reduces series resistance for large fill factor



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



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

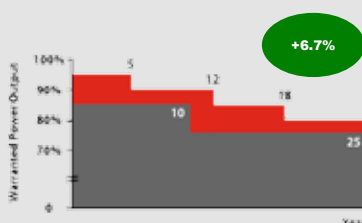


CE

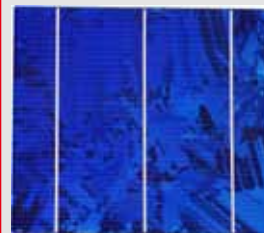
Trust Sunny to Deliver Reliable Performance Over Time

- 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



Textured surface and silicon nitride anti-reflection coating improves light absorption for more current production



Sunny's reputation is founded on more than 1.5 gigawatts of high-performing solar modules installed around the world

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

Electrical Characteristics

| STC | SM210D | SM205D |
|---------------------------------|------------------|----------------|
| Optimum Operating Voltage (Vmp) | 26.4 V | 26.3 V |
| Optimum Operating Current (Imp) | 7.95 A | 7.80 A |
| Open - Circuit Voltage (Voc) | 33.6 V | 33.5 V |
| Short - Circuit Current (Isc) | 8.33 A | 8.23 A |
| Maximum Power at STC (Pmax) | 210 W | 205 W |
| Module Efficiency | 14.3% | 13.9% |
| Operating Temperature | -40 °C to +85 °C | -40°C to +85°C |
| Maximum System Voltage | 600 V DC | 600 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 | SM210D | SM205D |
|---|--------|--------|
| Maximum Power (W) | 153 W | 150 W |
| Maximum Power Voltage (V) | 24.0 V | 23.9 V |
| Maximum Power Current (A) | 6.39 A | 6.27 A |
| Open Circuit Voltage (Voc) | 31.2 V | 31.1 V |
| Short Circuit Current (Isc) | 6.75 A | 6.64 A |
| Efficiency Reduction (from 1000 W/m ² to 200 W/m ²) | <4.5% | <4.5% |

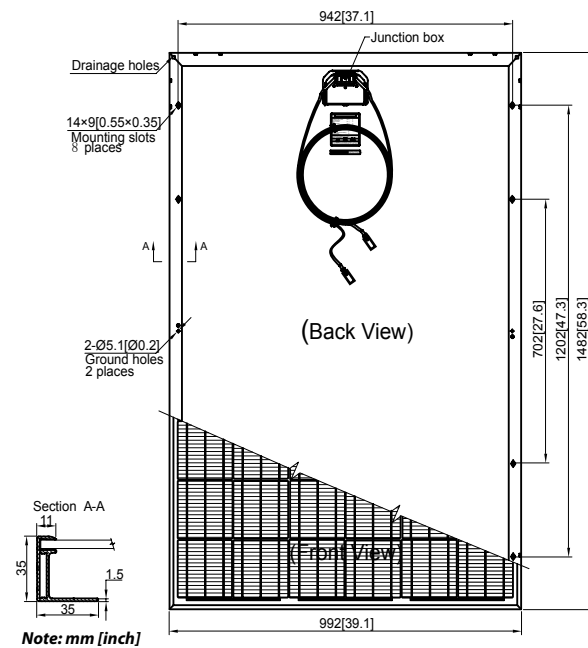
NOCT: Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s

Mechanical Characteristics

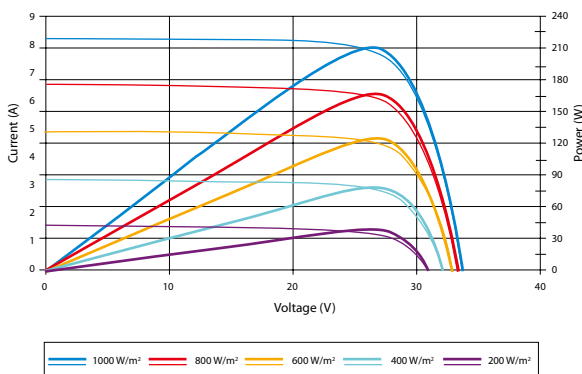
| | |
|---------------|--|
| Solar Cell | Polycrystalline 156 × 156 mm (6 inches) |
| No. of Cells | 54 (6 × 9) |
| Dimensions | 1482 × 992 × 35 mm (58.3 × 39.1 × 1.4 inches) |
| Weight | 16.8 kgs (37.0 lbs.) |
| Front Glass | 3.2 mm (0.13 inches) tempered glass |
| Frame | Anodized aluminium alloy |
| 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), H4 connectors (MC4 compatible) |

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 |



Current-Voltage & Power-Voltage Curve (210-18)



Temperature Characteristics

| | |
|---|------------|
| Nominal Operating Cell Temperature (NOCT) | 45±2°C |
| Temperature Coefficient of Pmax | -0.47 %/°C |
| Temperature Coefficient of Voc | -0.34 %/°C |
| Temperature Coefficient of Isc | 0.045 %/°C |

Dealer information box

Specifications are subject to change without further notification