

High-efficiency photovoltaic module using silicon nitride multicrystalline silicon cells.

Performance

Rated power (P_{max})	175W
Power tolerance	$\pm 5\%$
Nominal voltage	24V
Limited Warranty ¹	25 years

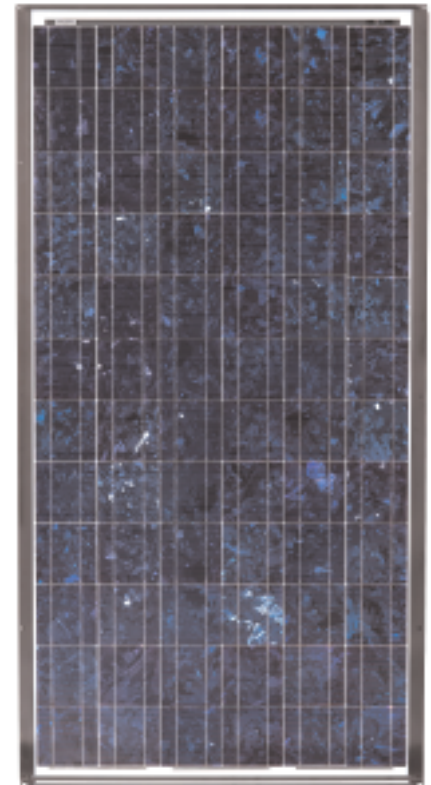
Configuration

BP 175I	Bronze frame with output cables and polarized Multicontact (MC) connectors
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Electrical Characteristics²

BP175I

Maximum power (P_{max}) ³	175W
Voltage at Pmax (V_{mp})	35.8V
Current at Pmax (I_{mp})	4.9A
Warranted minimum P_{max}	166.3W
Short-circuit current (I_{sc})	5.4A
Open-circuit voltage (V_{oc})	44.2V
Temperature coefficient of I_{sc}	(0.065 \pm 0.015)%/ °C
Temperature coefficient of V_{oc}	-(160 \pm 20)mV/°C
Temperature coefficient of power	-(0.5 \pm 0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m ² ; wind 1m/s)	47 \pm 2°C
Maximum series fuse rating	15A
Maximum system voltage	600V (U.S. NEC & IEC 61215 rating)



Mechanical Characteristics

Dimensions	Length: 1587mm (62.5") Width: 828mm (32.6") Depth: 50mm (1.97")
Weight	15.4 kg (33.9 pounds)
Solar Cells	72 cells (125mm x 125mm) in a 6x12 matrix connected in series
Output Cables	RHW AWG# 12 (4mm ²) cable with polarized weatherproof DC rated Multicontact connectors
Diodes	IntegraBus™ technology includes Schottky by-pass diodes integrated into the printed circuit board bus
Construction	Front: High-transmission anti-reflective 3mm (1/8th inch) tempered glass; White back Encapsulant: EVA
Frame	Bronze anodized aluminum alloy type 6063T6 IntegraBus™ frame; Color: Bronze

1. Warranty: Power output for 25 years. Freedom from defects in materials and workmanship for 5 years. See our website or your local representative for full terms of these warranties.
2. These data represent the performance of typical BP 175I products, and are based on measurements made in accordance with ASTM E1036 corrected to SRC (STC.)
3. During the stabilization process that occurs during the first few months of deployment, module power may decrease by up to 1% from typical P_{max} .

