

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

Performance

 $\begin{array}{ll} \text{Rated power } (P_{max}) & 195W \\ \text{Power tolerance} & \pm 9\% \\ \text{Nominal voltage} & 16V \\ \text{Limited Warranty}^1 & 25 \text{ years} \end{array}$

Configuration

- S Clear universal frame with output cables and polarized Multicontact (MC)
- **B** Bronze frame with output cables and polarized Multicontact (MC) connectors

Electrical Characteristics ²	SX3195	SX3190
Maximum power $(P_{max})^3$	195W	190W
Voltage at Pmax (V _{mp})	24.4V	24.3V
Current at Pmax (I _{mp})	7.96A	7.82A
Warranted minimum P _{max}	177.5W	172.9W
Short-circuit current (I _{sc})	8.6A	8.5A
Open-circuit voltage (V _{oc})	30.7V	30.6V
Temperature coefficient of I _{sc}	(0.065±0.015)%/°C	
Temperature coefficient of V _{oc}	-(111±10)mV/°C	
Temperature coefficient of power	-(0.5±0.05)%/ °C	
NOCT (Air 20°C; Sun 0.8kW/m ² ; wind 1m/s)	47±2°C	
Maximum series fuse rating	15A	
Maximum system voltage	600V (US NEC rating)	



Mechanical Characteristics

Dimensions	Length: 1680 (66.14") Width: 837mm (32.95")	Depth: 50mm (1.97")	
Weight	15.9 kg (35.05 pounds)		
Solar Cells	50 cells (156mm x 156mm) in a 5x10 matrix connected in series		
Output Cables	RHW AWG# 12 (4mm²) cable with polarized weatherproof DC rated Multicontact connectors; asymmetrical lengths - 1250mm (-) and 800mm (+)		
Diodes	IntegraBus™ technology includes Schottky by-pass diodes integrated into the printed circuit board bus		
Construction	Front: High-transmission 3mm (1/8 th inch) tempered glass; Back: Polyester; Encapsulant: EVA		
Frame	S Clear anodized aluminum alloy type 6063T6 Universal frame; Color: silver B Anodized aluminum alloy type 6063T6 Universal frame; Color: bronze		

^{1.} Module Warranty: 25-year limited warranty of 80% power output; 12-year limited warranty of 90% power output; 5-year limited warranty of materials and workmanship. See your local representative for full terms of these warranties.

^{2.} These data represent the performance of typical BP modules, 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 approx. 1% from typical P_{max} .

Quality and Safety

Module power measurements calibrated to World Radiometric Reference through ESTI (European Solar Test Installation at Ispra, Italy)



Listed by Underwriter's Laboratories for electrical and fire safety (Class C fire rating)

Qualification Test Parameters

Temperature cycling range -40°C to +85°C (-40°F to 185°F)

Humidity freeze, damp heat 85% RH

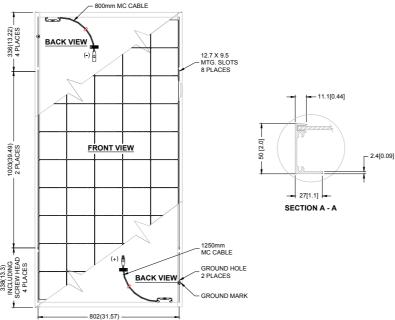
Static load front and back (e.g. wind) 2,400 pa (50psf)

Front loading (e.g. snow) 5,400 pa (113psf)

Hailstone impact 25mm Ø (1 inch) at 23 m/s (52mph)



Dimensions in brackets are in inches. Un-bracketed dimensions are in millimeters. Overall tolerances ±3mm (1/8")



Included with each module: self-tapping grounding screw, instruction sheet, and warranty document.

Note: This publication summarizes product warranty and specifications, which are subject to change without notice. Additional information may be found on our web site: www.bpsolar.com

