

140 Watt Photovoltaic Module

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

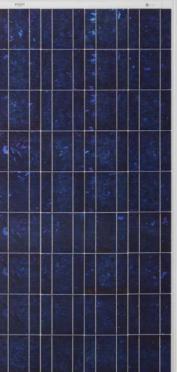
Performance

Rated power (Pmax)	140W
Power tolerance	± 9%
Nominal voltage	12V
Limited Warranty ¹	25 years

Configuration

J SX 3140J Clear universal frame and standard J-Box

Electrical Characteristics ²	SX3140	SX3130
Maximum power (P _{max}) ³	140W	130W
Voltage at Pmax (V _{mp})	17.5V	17.3V
Current at Pmax (Imp)	8.0A	7.5A
Warranted minimum Pmax	127.4W	118.3W
Short-circuit current (Isc)	8.2A	8.2A
Open-circuit voltage (Voc)	22.0V	22.0V
Temperature coefficient of Isc	(0.065±0.015)%/ °C	
Temperature coefficient of Voc	-(80±10)mV/°C	
Temperature coefficient of power	-(0.5±0.05)%/ °C	
NOCT (Air 20°C; Sun 0.8kW/m ² ;	47±2°C	
wind 1m/s)		
Maximum series fuse rating	15A (S	S); 20A (J)
Maximum system voltage	600V (US NEC rating)	
	1000V (TÜV	Rheinland rating)
	1000V (IEC	C 61215 rating)



SX 3140

Mechanical Characteristics

Dimensions	Length: 1510mm (59.4") Width: 674mm (26.5") Depth: 50mm (1.97")
Weight	12.0 kg (26.5 pounds)
Solar Cells	36 cells (156mm x 156mm) in a 4x9 matrix connected in series
Junction Box	J-Version junction box with 6-terminal connection block; IP 65, accepts PG 13.5, M20, ½ inch conduit, or cable fittings accepting 6-12mm diameter cable. Terminals accept 2.5 to 10mm ² (8 to 14 AWG) wire.
Diodes	<i>IntegraBus</i> ™ 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	Clear anodized aluminum alloy type 6063T6 Universal frame; Color: silver

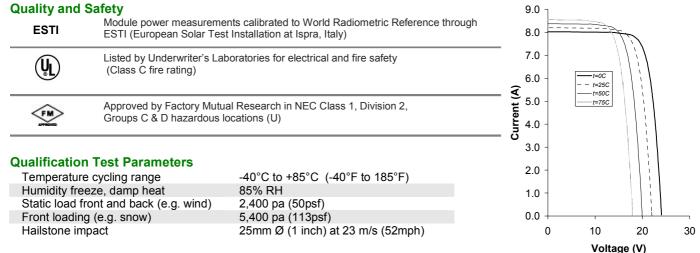
1. Module Warranty: 25-year limited warranty of 80% power output; 12-year limited warranty of 90% power output; 5-year limited warranty of materials and workmanship. See your local representative for full terms of these warranties.

These data represent the performance of typical SX 3130 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 9% from typical P_{max}.

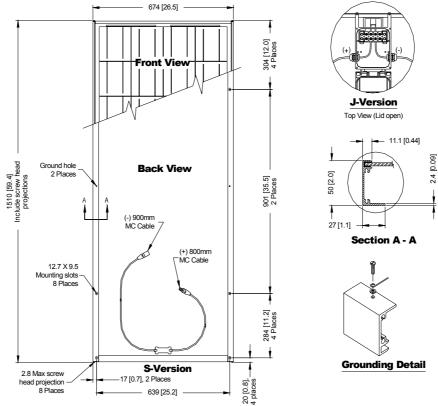
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SX 3130 I-V Curves



Module Diagram

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



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