

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

Performance

 $\begin{array}{ll} Rated\ power\ (P_{max}) & 4.5W \\ Power\ tolerance & \pm 10\% \\ Nominal\ voltage & 12V \\ Limited\ Warranty^1 & 12\ years \end{array}$

Configuration

M Multimount frame with lo-pro J-Box and output cable.

Electrical Characteristics ²	SX305
Maximum power $(P_{max})^3$	4.5W
Voltage at Pmax (V _{mp})	16.5V
Current at Pmax (I _{mp})	0.27A
Warranted minimum P _{max}	4W
Short-circuit current (I _{sc})	0.3A
Open-circuit voltage (V _{oc})	20.5V
Temperature coefficient of I _{sc}	(0.065±0.015)%/°C
Temperature coefficient of V _{oc}	-(80±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	1A
Maximum system voltage	50V (US NEC rating) 50V (IEC 61215 rating)



Mechanical Characteristics

Dimensions	Length: 251mm (9.9")	Width: 269mm (10.6")	Depth: 23mm (0.9")
Weight	0.8 kg (1.76 pounds)		
Solar Cells	36 cells (19mm x 57mm) in a 4x9 matrix connected in series		
Output Cables	AWG# 18 (0.75mm ²) 2 core ITC/PLTC; length - 4572mm		
Construction	Front: High-transmission 3mm (1/8 th inch) tempered glass; Back: Polyester; Encapsulant: EVA		
Frame	Clear anodized aluminum alloy type 6063T6 Multimount frame; Color: silver		

^{1.} Module Warranty: 12-year limited warranty of 90% power output; 2-year limited warranty of materials and workmanship. See your local representative for full terms of these warranties.

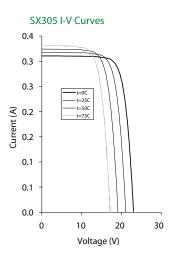
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^{2.} These data represent the performance of typical BP modules, and are based on measurements made in accordance with ASTM E1036 corrected to SRC (STC.)

^{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

C€	Manufactured in ISO 9001-certified factories; conforms to European Community Directives 89/33/EEC, 73/23/EEC, 93/68/EEC; certified to IEC 61215
ESTI	Module power measurements calibrated to World Radiometric Reference through ESTI (European Solar Test Installation at Ispra, Italy)
(Ų)	Listed by Underwriter's Laboratories for electrical and fire safety (Class C fire rating)
₹M ATTENDE	Approved by Factory Mutual Researchin NEC Class 1, Division 2, Groups C & D hazardous locations.

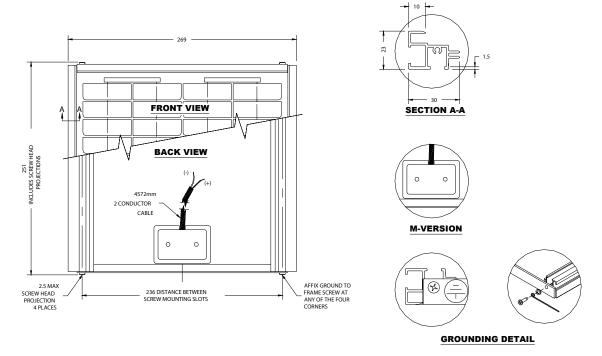


Qualification Test Parameters

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)

Module Diagram

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



Included with each module: Instruction sheet, and warranty document.

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

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