

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

Performance

Rated power (P_{max}) 130W

Power tolerance ± 3% (BP3130 & BP3125) and ± 3% (BP3115 & BP3110)

Nominal voltage 12V Limited Warranty¹ 25 years

Configuration

S BP 3125S Clear universal frame with LoPro J-Box and

polarized Multicontact (MC) connectors

J BP 3125J Clear universal frame and standard J-Box

Electrical Characteristics ²	BP 3130	BP 3125	BP 3115	BP 3110
Maximum power (P _{max}) ³	130W	125W	115W	115W
Voltage at Pmax (V _{mp})	17.4V	17.4V	17.1V	16.9V
Current at Pmax (I _{mp})	7.5A	7.2A	6.7A	6.5A
Warranted minimum P _{max}	126.1W	121.3W	109.3W	104.5W
Short-circuit current (I _{sc})	8.2A	8.1A	7.5A	7.4A
Open-circuit voltage (Voc)	22.0V	22.0V	21.8V	21.6V
Temperature coefficient of I _{sc}		(0.065±0.	015)%/ °C	
Temperature coefficient of Voc		-(80±10))mV/°C	
Temperature coefficient of power		-(0.5±0.0	05)%/ °C	
NOCT (Air 20°C; Sun 0.8kW/m ² ; wind 1m/s)		47±	:2°C	
Maximum series fuse rating		15A (S)	; 20A (J)	
Maximum system voltage		600V (US I	NEC rating)	
	100	00V (TÜV R	heinland rati	ng)
	•	1000V (IEC	61215 rating)

Length: 1510mm (59.4") Width: 674mm (26.5")



Mechanical Characteristics

S.I

Dimensions

Difficitions	3,3	Length. 13101111 (39.4) Width. 07411111 (20.3) Depth. 30111	
Weight	S,J	12.0 kg (26.5 pounds)	
Solar Cells	S,J	36 cells (157mm x 157mm) in a 4x9 matrix connected in series	
Output Cables	S	RHW AWG# 12 (4mm ²) cable with polarized weatherproof DC rated Multicontact connectors; asymmetrical lengths - 900mm (-) and 800mm (+)	
Junction Box	J	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	S,J	IntegraBus™ technology includes Schottky by-pass diodes integrated into the printed circuit board bus	
Construction	S,J	Front: High-transmission 3mm (1/8 th inch) tempered glass; Back: Polyester; Encapsulant: EVA	
Frame	S,J	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.

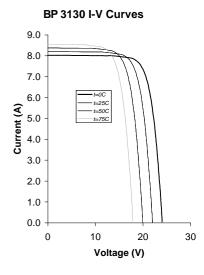
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^{2.} These data represent the performance of typical BP 3125 products, and are based on measurements made in accordance with ASTM E1036 corrected to SRC (STC.)

^{3.} During the stabilization process that occurs during the first few months of deployment, module power may decrease by up to 3% from typical P_{max}.

Quality and Safety

ESTI	ESTI (European Solar Test Installation at Ispra, Italy)
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
TÜV	Framed modules certified by TÜV Rheinland as Safety Class II (IEC 60364) equipment for use in systems up to 1000 VDC
(Ų _L)	Listed by Underwriter's Laboratories for electrical and fire safety (Class C fire rating)
FM	Approved by Factory Mutual Research in NEC Class 1, Division 2, Groups C & D hazardous locations (U)

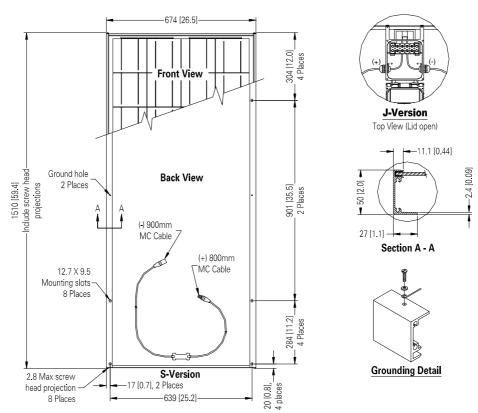


Qualification Test Parameters

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-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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