

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

Performance

Rated power (P_{max}) 125W Power tolerance $\pm 5\%$ Nominal voltage 12V Limited Warranty¹ 25 years

Configuration

S BP 3125S Clear universal frame with LoPro J-Box and polarized Multicontact (MC) connectors
U BP 3125U Clear universal frame and standard J-Box

Electrical Characteristics ²	BP 3125
Maximum power (P _{max}) ³	125W
Voltage at Pmax (V _{mp})	17.6V
Current at Pmax (I _{mp})	7.1A
Warranted minimum P _{max}	118.75W
Short-circuit current (I _{sc})	7.54A
Open-circuit voltage (Voc)	22.1V
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	15A (S); 20A (U)
Maximum system voltage	600 V (US NEC rating) 1000V (IEC 61215 rating)



Mechanical Characteristics

Dimensions	S,U	Length: 1510mm (59.4") Width: 6/4mm (26.5") Depth: 50mm (1.9/")	
Weight	S,U	12.0 kg (26.5 pounds)	
Solar Cells	S,U	36 cells (157mm x 157mm) in a 4x9 matrix connected in series	
Output Cables	S	RHW AWG# 12 (4mm²) cable with polarized weatherproof DC rated Multicontact connectors; asymmetrical lengths - 900mm (-) and 800mm (+)	
Junction Box	U	U-Version junction box with 6-terminal connection block; IP 54, accepts PG 13.5, M20, ½ inch conduit, or cable fittings accepting 6-12mm diameter cable. Terminals accept 2.5 to 10mm² (8 to 14 AWG) wire.	
Diodes	S,U	IntegraBus™ technology includes Schottky by-pass diodes integrated into the printed circuit board bus	
Construction	S,U	Front: High-transmission 3mm (1/8 th inch) tempered glass; Back: Tedlar; Encapsulant: EVA	
Frame	S,U	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.

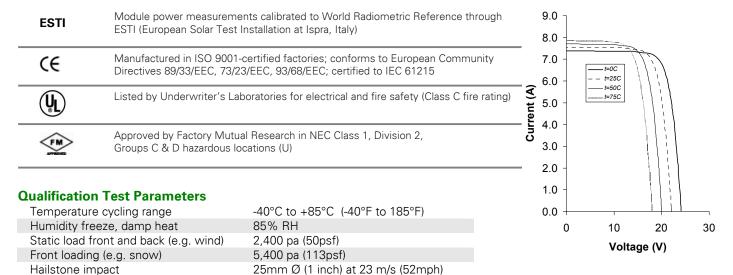
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^{2.} These data represent the performance of typical BP 3125 products, and are based on measurements made in accordance with ASTM E1036 corrected to SRC (STC.)

^{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}.

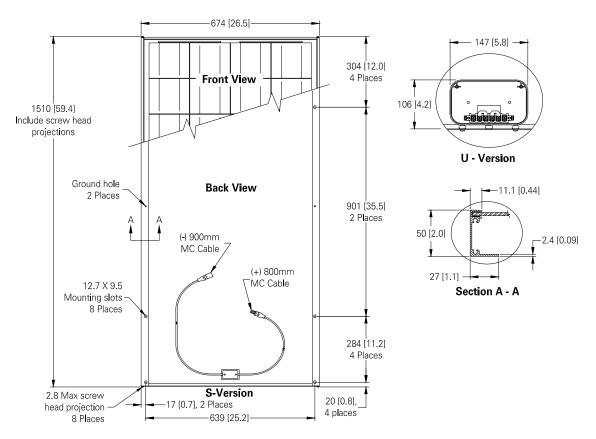
BP 3125 I-V Curves

Quality and Safety



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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