



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

Performance

 $\begin{array}{ll} \text{Rated power } (P_{\text{max}}) & 170 \text{W} \\ \text{Power tolerance} & \pm 3\% \\ \text{Nominal voltage} & 24 \text{V} \\ \text{Limited Warranty}^1 & 25 \text{ years} \end{array}$

Configuration

N BP 3170N Clear universal frame with Wirehold J-Box and

polarized Multicontact (MC) connectors

J BP 3170J Clear universal frame and standard J-Box

Electrical Characteristics ²	BP 3170	BP 3165
Maximum power $(P_{max})^3$	170W	165W
Voltage at Pmax (V _{mp})	35.8V	35.2V
Current at Pmax (I _{mp})	4.75A	4.69A
Warranted minimum P _{max}	164.9W	160.0W
Short-circuit current (I _{sc})	5.2A	5.1A
Open-circuit voltage (V _{oc})	44.2V	44.2V
Temperature coefficient of I _{sc}	(0.065±0.015)%/°C	
Temperature coefficient of V_{oc} -(160±20)mV/°C))mV/°C
Temperature coefficient of power -(0		05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m ² ; wind 1m/s)	47±	2°C
Maximum series fuse rating	15A (S, L); 20A (J)
Maximum system voltage	600V (U.S. NEC &	: IEC 61215 rating)
	1000V (TÜV R	heinland rating)



Mechanical Characteristics

Dimensions	N, J	Length: 1593mm (62.8") Width: 790mm (31.1") Depth: 50mm (1.97")	
Weight	N, J	15.4 kg (33.9 pounds)	
Solar Cells	N, J	72 cells (125mm x 125mm) in a 6x12 matrix connected in series	
Output Cables	N	RHW-2 AWG# 12 (4mm²) cable with polarized weatherproof DC rated Multicontact connectors with enhanced clip connection at module end; asymmetrical lengths - 1250mm (-) and 800mm (+)	
Junction Box	J	J-Version junction box with 4-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 10mm² (8 to 14 AWG) wire.	
Diodes	N, J	<i>IntegraBus</i> ™ technology includes Schottky by-pass diodes integrated into the printed circuit board bus	
Construction	N, J	Front: High-transmission 3mm (1/8 th inch) tempered glass; Back: Polyester Encapsulant: EVA	
Frame	N, J	Clear anodized aluminum alloy type 6063T6 Universal frame; Color: silver	

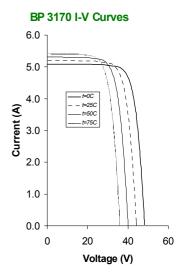
^{1.} Module Warranty: 25-year limited warranty of 80% power output; 12-year limited warranty of 90% power output; 5-year limited warranty of materials and workmanship. See your local representative for full terms of these warranties.

^{2.} This data represents 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; certified to IEC 61215
ESTI	Module power measurements calibrated to World Radiometric Reference through ESTI
TÜV	Framed modules certified by TÜV Rheinland as Safety Class II (IEC 60364) equipment for use in systems up to 1000 VDC
(J)	Framed modules listed by Underwriter's Laboratories for electrical and fire safety (Class C fire rating)
	Laminates recognized by Underwriter's Laboratories for electrical and fire safety (Class C fire rating)

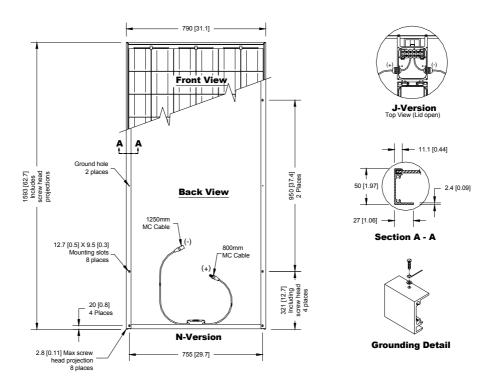


Qualification Test Parameters

-40°C to +85°C (-40°F to 185°F)
85% RH
50psf (2400 pascals)
113psf (5400 pascals)
25mm (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

