

## 175 瓦光伏组件

# BP 4175

High-efficiency photovoltaic module using silicon nitride monocrystalline silicon cells

### Performance

	BP4175	BP4170	BP4165	BP4160
Rated power (Pmax)	175W	170W	165W	160W
Module efficiency	± 3%	± 3%	± 3%	± 3%
Nominal voltage	24V	24V	24V	24V
Warranty <sup>1</sup>	25years			

### Configuration

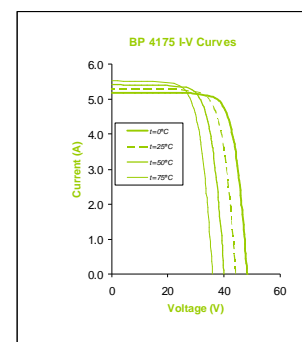
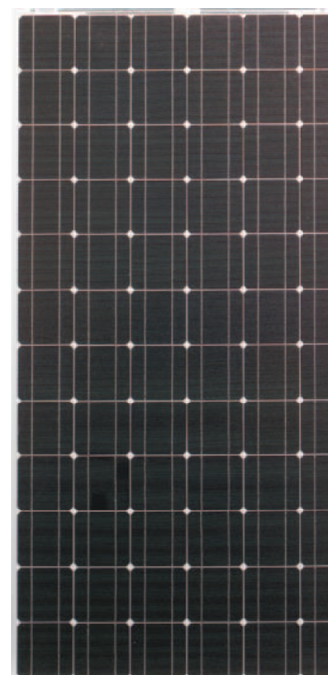
S/N BP 4175S/N	Clear universal frame with LoPro J-box and polarised multicontact (MC) connectors
J BP 4175J	Clear universal frame and standard J-box

### Qualification test parameters

Temperature cycling range	-40°C to +85°C (-40°F to 185°F)
Damp heat test	85°C , 85% relative humidity
Front and rear static load test (eg: wind)	2,400 Pa (50psf)
Front load test (eg: snow)	5,400 Pa (113psf)
Hailstone impact test	25mm Ø (1 inch) at 23m/s (52mph)

### Typical electrical characteristics<sup>2</sup>

	BP4175	BP 4170	BP 4165	BP 4160
Rated power (Pmax) <sup>3</sup>	175W	170W	165W	160W
Voltage at Pmax (Vmp)	35.7V	35.6V	35.5V	35.4V
Current at Pmax (Imp)	4.9A	4.8A	4.65A	4.5A
Short circuit current (Isc)	5.5A	5.3A	5.2A	5.1A
Open circuit voltage (Voc)	44.5V	44.0V	43.6V	44.0V
Temperature coefficient of Is	(0.065±0.015)%/ °C			
Temperature coefficient of Voc	-(160±10)mV/°C			
Temperature coefficient of Pmax	-(0.5±0.05)%/ °C			
NOCT	47±2°C (Air 20°C; Sun 0.8kW/m2 ; wind 1m/s)			
Maximum series fuse rating	15A (S); 20A (J)			
Maximum system voltage	600V (US NEC rating) 1000V (TÜV Rheinland rating) 1000V (IEC 61215 rating)			

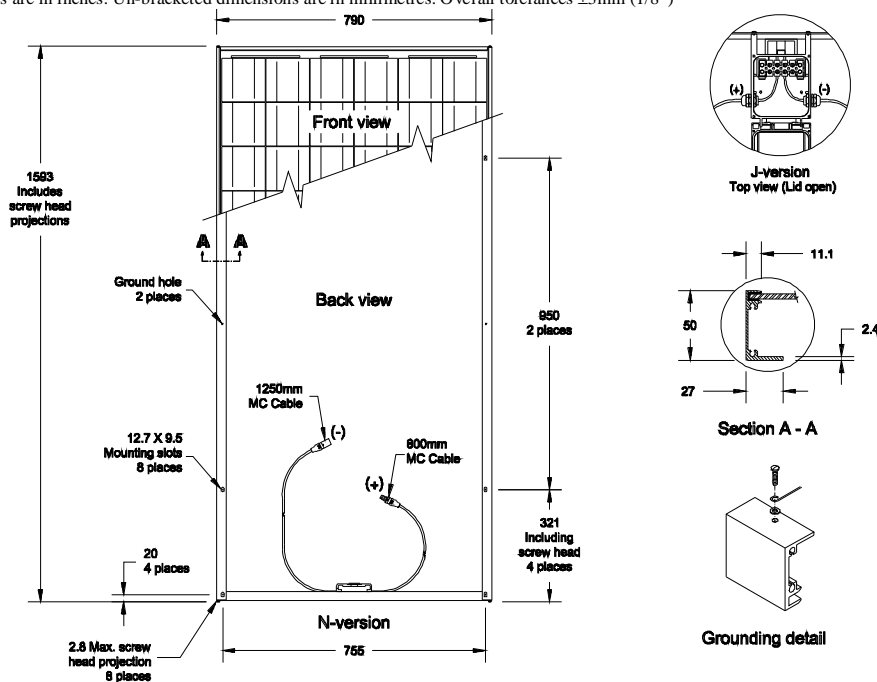


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### Module diagram

Dimensions in brackets are in inches. Un-bracketed dimensions are in millimetres. Overall tolerances  $\pm 3\text{mm}$  (1/8")



### Mechanical characteristics: BP4175

Dimensions	S,N,J,	Length: 1593mm (62.8inch) Width: 790mm (31.1inch) Depth: 50mm (1.97inch)
Weight	S,N,J,	15.4kg(34pound)
Solar cells	S,N,J	72 cells (125mmx 125mm)cells, in a 6 x 12matrix connected in series
Output cables	S,N	RHW AWG# 12 (4mm <sup>2</sup> ) cable with polarized weatherproof DC rated Multicontact connectors; asymmetrical lengths -1250mm (-) 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 <sup>2</sup> (8 to 14 AWG) wire.。
Junction box	S,N,J	IntegraBus™ technology includes Schottky bypass diodes integrated into the printed circuit board bus.
Construction	S,N,J	Front: high-transmission 3mm (1/8 inch) tempered glass Back: polyester Encapsulant: EVA
Frame	S,N,J	Clear anodised aluminium alloy type 6063T6 Universal frame; Colour: 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. These data represent the performance of typical BP4175 products, and are based on measurements made in accordance with ASTM E1036 [www.bpsun Oasis.com](http://www.bpsun Oasis.com)

3. During the stabilisation process that occurs during the first few months of deployment, module power may decrease by up to 3% from typical Pmax.