

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

### Performance

Rated power ( $P_{max}$ )	237W
Power tolerance	± 3%
Nominal voltage	20V
Limited Warranty <sup>1</sup>	25 years

### Configuration

T BP 3237T Clear universal frame with Wirehold J-Box and polarized Multicontact (MC) connectors

### Electrical Characteristics<sup>2</sup>

	BP3237	BP3232
Maximum power ( $P_{max}$ ) <sup>3</sup>	237 W	232 W
Voltage at Pmax ( $V_{mp}$ )	29.4V	29.3V
Current at Pmax ( $I_{mp}$ )	8.06A	7.92A
Warranted minimum $P_{max}$	229.9W	225.04W
Short-circuit current ( $I_{sc}$ )	8.57 A	8.41 A
Open-circuit voltage ( $V_{oc}$ )	36.7 V	36.6 V
Temperature coefficient of $I_{sc}$	(0.065±0.015)%/ °C	
Temperature coefficient of $V_{oc}$	-(265±10)mV/°C	
Temperature coefficient of power	-(0.5±0.05)%/ °C	
NOCT (Air 20°C; Sun 0.8kW/m <sup>2</sup> ; wind 1m/s)	47±2°C	
Maximum series fuse rating	20A	
Maximum system voltage	600V (U.S. NEC) 1000V (IEC 61730 Installation Class A)	



### Mechanical Characteristics

Dimensions	Length: 1667mm (65.63")	Width: 1000mm (39.37")	Depth: 50mm (1.97")
Weight	19.4 kg (42.77 pounds)		
Solar Cells	120 cells (156mm x 78mm) connected in series		
Output Cables	RHW-2 AWG# 12 (4mm <sup>2</sup> ) cable with polarized weatherproof DC rated Multicontact connectors with enhanced clip connection at module end; Asymmetrical lengths - 1000mm (-) and 1000mm (+)		
Diodes	<b>IntegraBus™</b> technology includes Schottky by-pass diodes integrated into the printed circuit board bus		
Construction	Front: High-transmission 3.2mm tempered anti reflective coated glass; White Back-sheet; Encapsulant: EVA		
Frame	Clear anodized, aluminum alloy, Universal II 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. 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 up to 1% from typical  $P_{max}$ . All solar modules are individually tested prior to shipment; an allowance is made within our factory measurement to account for the typical power degradation (LID effect) which occurs during the first few days of deployment.

## Quality and Safety

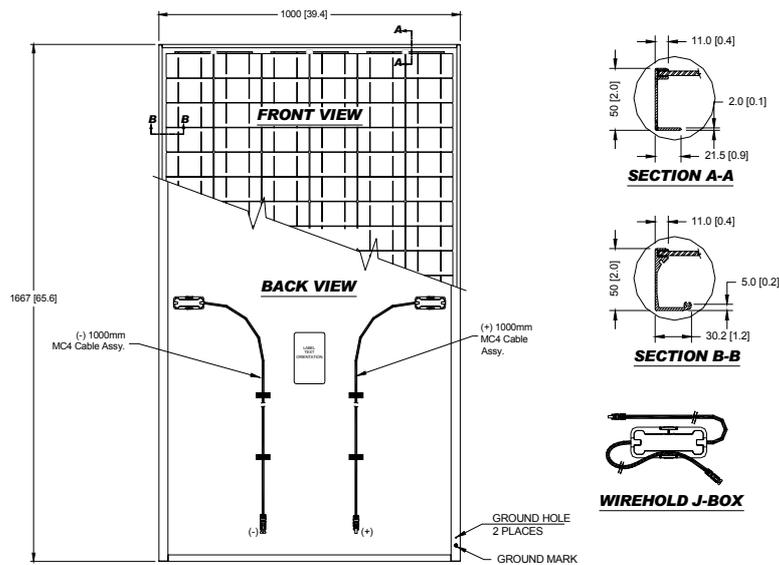
<b>ESTI</b>	Module power measurements calibrated to World Radiometric Reference through ESTI (European Solar Test Installation at Ispra, Italy)
<b>CE</b>	Manufactured in ISO 9001-certified factories; conforms to European Community Directives; certified to IEC 61215
<b>VDE</b>	Framed modules certified by VDE as Safety Class II (IEC 61730) equipment for use in systems up to 1000 VDC
<b>ETL</b>	Listed to UL 1703 by Intertek Testing Services for electrical and fire safety (Class C fire rating)

## Qualification Test Parameters

Temperature cycling range	-40°C to +85°C
Humidity freeze, damp heat	85% RH / 85°C
Static load front and back (e.g. wind)	50psf (2400 pascals)
Front loading (e.g. snow)	113psf (5400 pascals)
Hailstone impact	25mm (1 inch) at 23 m/s (52mph)

## Module Diagram

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



Self-tapping grounding screw, instruction sheet, and warranty document included with each module.

**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](http://www.bpsolar.com)

## BP 3237 I-V Curves

