

BP 330

The BP 330 is an advanced 30W photovoltaic module that addresses the needs of rural electrification, from remote homes that do not have access to the utility grid, to remote industrial applications such as telemetry and instrumentation systems. This product offers improved efficiency through the use of advanced polycrystalline cells with SiN coating and a 12V nominal output, making it ideal for battery charging applications. It has proven performance at high temperatures and its robust design makes the product durable in the field and easy to install.

Performance	BP330
Rated power	30W
Nominal voltage	12V
Warranty	90% of minimum warranted power output over 12 years
	Free from defects in materials and workmanship for 2 years

BP 330J

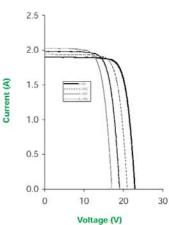
Configuration

BP 330J	Universal frame with an accessible junction box for cable connection

Qualification Test Parameters

Temperature cycling range	-40°C to +85°C for 200 cycles		
Damp heat test	85°C and 85% relative humidity for 1000h		
Front & rear static load test (eg: wind)	2400 Pa		
Front load test (eg: snow)	5400 Pa		
Hailstone impact test	25mm hail at 23m/s from 1m distance		

BP 330 I-V Curves



Quality and Safety

• Manufactured in ISO 9001 certified factory

Listed to UL1703 Standard for Safety by Intertek ETL (Class C fire rating)

Approved by Factory Mutual Research in NEC Class 1, Division 2, Groups C and D hazardous locations



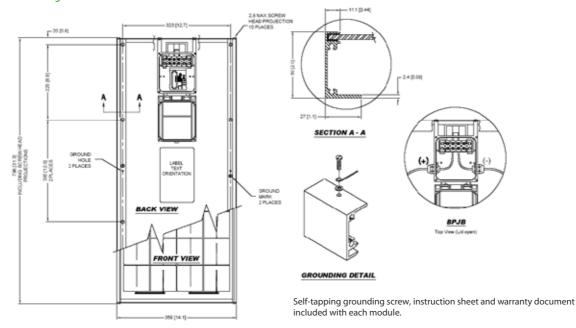


ISO 9001



BP 330

Module Diagram



Typical Electrical Characteristics		
Rated power (P _{max}) ¹	30W	
Warranted minimum power	27W	
Voltage at P max (V mp)	16.8V	
Current at P max (I mp)	1.78A	
Short circuit current (I sc)	1.94A	
Open circuit voltage (V oc)	21.0V	
Temperature coefficient of I sc	(0.065±0.015)%/ °C	
Temperature coefficient of V oc	-(80±10)mV/ °C	
Temperature coefficient of P max	-(0.5±0.05)%/ °C	
NOCT ²	47±2°C	
Maximum series fuse rating	5A	
Maximum system voltage	50V (ETL rating)	

Mechanical Characteristics	BP 330J	
Dimensions (mm) (Overall tolerances +/-3mm)	796 x 358 x 50mm	
Weight (kg)	3.9Kg	
Frame	Clear anodised aluminium, alloy type 6063T6. Colour: silver.	
S olar cells	36 cells (78mm \times 78mm) configured geometrically for a 9 \times 4 matrix connected in series.	
Junction box	IP65 junction box with four termin al screw connection block, accepts PG 13.5, M20, 13mm conduit, or cable fittings accepting 6 –12mm diameter cable. Terminals accept 2.5 – 10mm ² (8-14 AWG) wire.	

Rear: white polyester; encapsulant: EVA.

Front: high transmission 3mm tempered glass.

1. Standard test conditions (STC), irradiance of 1000W/m 2 at an AM1.5G solar spectrum and a cell temperature of 25°C. 2. Normal Operating Cell Temperature (NOCT) air temperature of 20°C; irradiance 800W/m 2 ; wind speed 1m/s.

This publication summarises product warranty and specifications which are subject to change without notice.

We for full terms and conditions of warranty, see BP Solar's warranty document. All solar modules are individually tested prior to shipment.

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Your BP Solar Distributor:





Construction



BP Solar Pty Ltd 2009