

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

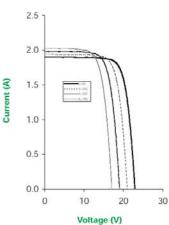
Configuration

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



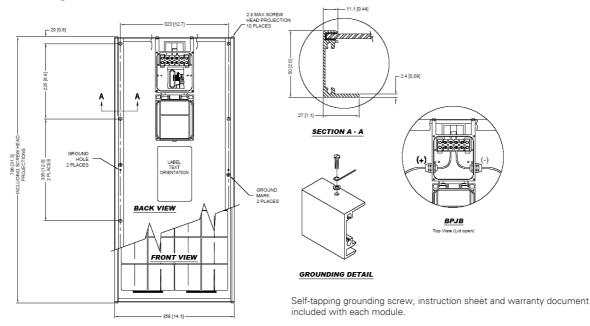


ISO 9001



30 Watt Photovoltaic Module BP 330

Module Diagram



Typical Electrical Characteristics	BP 330	
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 (Voc)	21.0V	
Temperature coefficient of Isc	(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)	796 x 358 x 50mm	Your BP Solar Distributor:
(Overall tolerances +/-3mm) Weight (kg)	3.9Kg	
Frame	Clear anodised aluminium, alloy type 6063T6. Colour: silver.	
Solar cells	$36 \text{ cells (78mm x 78mm)}$ configured geometrically for a 9×4 matrix connected in series.	
Junction box	IP65 junction box with four terminal screw connection block, accepts PG 13.5, M20, 13mm conduit, or cable fittings accepting 6 –12mm diameter cable. Terminals accept 2.5 – 10mm² (8-14 AWG) wire.	
Construction	Front: high transmission 3mm tempered glass. Rear: white polyester; encapsulant: EVA.	

1. Standard test conditions (STC), irradiance of 1000W/m² 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/m²; wind speed 1m/s.

www.bpsolar.com.au

© BP Solar Pty Ltd 2009