

65W Photovoltaic module

BP 365J

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BP Solar has been manufacturing solar wafers, cells and modules for more than 35 years. This experience shows that the best way to optimize module life and electrical energy production is to attend to every detail in the design and manufacture of our products, our process controls and testing methods. BP Solar's latest generation of small area modules offers the following benefits:



Accessible junction box for off grid connections

BP J-type junction box has accessible terminals for easier module interconnections in off grid applications and it allows fitting cable glands for various cable sections.



Improved reliability and lead free interconnections

IntegraBus™ technology and lead free soldering ensures high quality interconnections while being environmentally responsible. Diodes are laminated in a printed circuit board for cooler operation and greater reliability.



Thick, durable, scratch resistant back sheet

Our new thicker back sheet provides extra insulation and increased resistance to protect your module against rough handling. Made of white polyester, it ensures longer term performance and increased energy production.



Certified to be used in multiple applications

The new BP 365J carries all certifications to be used in different regions. The BP 365J is certified according to IEC standards, UL 1703 for safety and can also be used in Class I, Division 2, Group A to D Hazardous locations.

Enhanced warranty offer

BP Solar launches an industry leading warranty offer, with lower degradation rates on our modules manufactured beginning January 1st, 2010. Our internal testing standards that go well beyond international requirements back this innovative offer.

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Electrical characteristics

	⁽¹⁾ STC 1000W/m ²	⁽²⁾ NOCT 800W/m ²
Maximum power (P _{max})	65W	46.8W
Voltage at P _{max} (V _{mpp})	17.6V	15.7V
Current at P _{max} (I _{mpp})	3.69A	3.0A
Short circuit current (I _{sc})	3.99A	3.23A
Open circuit voltage (V _{oc})	21.7V	19.7V
Module efficiency	12.1%	
Tolerance	-7.7/+10%	
Nominal voltage	12V	
Efficiency reduction at 200W/m ²	<5% reduction (efficiency 11.5%)	
Limiting reverse current	3.99A	
Temperature coefficient of I _{sc}	(0.065±0.015)%/°C	
Temperature coefficient of V _{oc}	-(0.36±0.05)%/°C	
Temperature coefficient of P _{max}	-(0.5±0.05)%/°C	
⁽³⁾ NOCT	47±2°C	
Maximum series fuse rating	10A	
Application class (according to IEC 61730:2007)	Class A	
Maximum system voltage	600V	

1: Values at Standard Test Conditions (STC): 1000W/m² irradiance, AM1.5 solar spectrum and 25°C module temperature
 2: Values at 800W/m² irradiance, Nominal Operation Cell Temperature (NOCT) and AM1.5 solar spectrum
 3: Nominal Operation Cell Temperature: Module operation temperature at 800W/m² irradiance, 20°C air temperature, 1m/s wind speed

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.

Mechanical characteristics

Solar cells	36 polycrystalline silicon cells (156x78mm) in series
Front cover	High transmission 3.2mm (1/8th in) glass
Encapsulant	EVA
Back cover	White polyester
Frame	Silver anodized aluminium
Diodes	IntegraBus™ with Schottky diodes integrated
Junction box	IP65 with 4 terminal 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
Dimensions	796x674x50mm / 31.3x26.5x2in
Weight	6.4kg / 14lbs

All dimensional tolerances within ±0.1% unless otherwise stated.

Warranty

- Free from defects in materials and workmanship for 5 years
- 93% power output over 12 years
- 85% power output over 25 years

Certification

Certified according to the extended version of the IEC 61215:2005 (Crystalline silicon terrestrial photovoltaic modules - Design qualification and type approval)

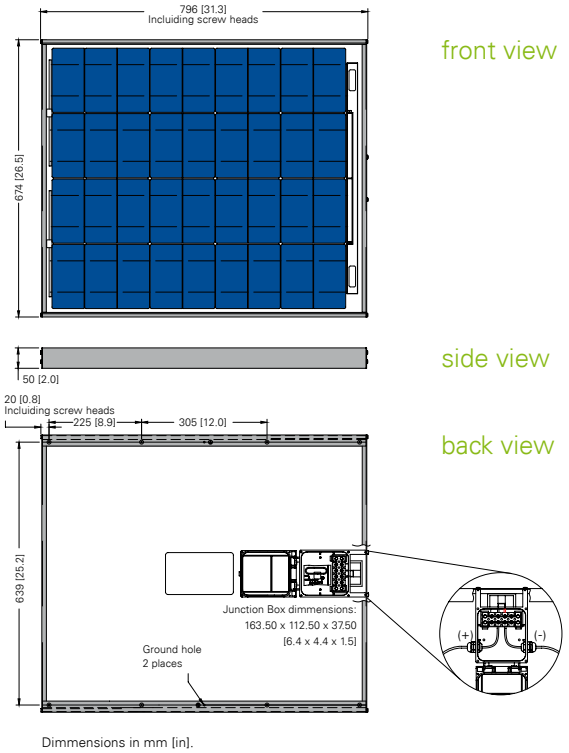
Certified according to IEC 61730-1 and IEC 61730-2. (Photovoltaic module safety qualification, requirements for construction and testing)

Listed to UL 1703 Standard for Safety by Intertek ETL (Class C fire rating)

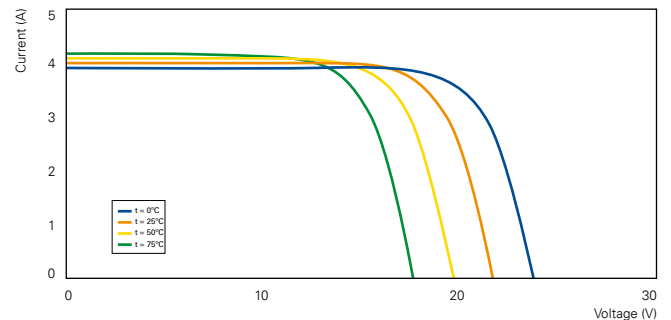
Approved by Intertek ETL for use in Class 1, Division 2, Groups A to D hazardous locations

Manufactured in ISO 9001 and ISO 14001 certified factories

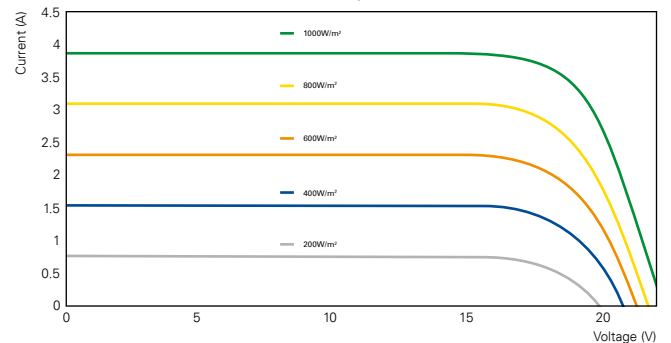
Module electrical measurements are calibrated to World radiometric reference via third party international laboratories



Dependence of the temperature



Dependence of the irradiance



Contact:

Your BP Solar partner