

# 215W Photovoltaic module

# **BP 3215B**



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 new 215W black module is designed to bring you the highest lifetime value and offers the following benefits:



### Long lasting, innovative frame design

The aluminum frame has a rounded profile for better handling comfort and is optimized for use with anti-theft bolts to increase security.



# Uniform appearance, aesthetically-pleasing

Black frame and back sheet ensures the most attractive photovoltaic solution, maintaining the clean appearance of your roofline.



### Improved reliability with effective cooling

IntegraBus™ technology ensures reliable cable management while positioning the bypass diodes and junction box away from the cells for cooler operation and greater energy production.



### Flexible mounting and reduced soiling losses

Increased distance between cells and frame, and an enhanced design to push the laminate to the front, ensures that dirt accumulation will not shadow cells, even in landscape mounting, thus maximizing energy production.

# **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**

215W 29.1V	154.8W
29.1V	
	25.9V
7.4A	5.92A
8.10A	6.56A
36.5V	33.2V
12.9%	
-3/+5%	
20V	
<5% reduction (efficiency 12.	2%)
8.10A	
0.105%/°C	
-0.360%/°C	
-0.45%/°C	
47±2°C	
20A	
Class A	
600V (U.S. NEC rating); 1000V (IEC 61730:2007)	
	7.4A 8.10A 36.5V 12.9% -3/+5% 20V <5% reduction (efficiency 12. 8.10A 0.105%/ °C -0.360%/ °C -0.45%/ °C 47±2°C 20A Class A

- 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	60 polycrystalline 6" silicon cells (156x156mm) in series
Front cover	High transmission 3.2mm (1/8th in) glass
Encapsulant	EVA
Back cover	Black polyester
Frame	Black anodized aluminum (Universal II)
Diodes	IntegraBus™ with 6 Schottky diodes
Junction box	Potted (IP 67); certified to meet UL 1703 flammability test
Output cables	4mm² cable with latching MC4 connectors Asymetrical cable lengths: (-)1250mm (49.21in) / (+)800mm (31.50in) Certified as PV Wire according to UL4703 and PV1-F according to VDE EPV 01:2008-02 standards
Dimensions	1667x1000x50mm / 65.6x39.4x2in
Weight	19.4kg / 42.8lbs
All dimensional tolerances within ±1% unless otherwise stated.	

#### Warranty

- Free from defects in materials and workmanship for 5 years
- 93% min, power output over 12 years
- 85% min. 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)

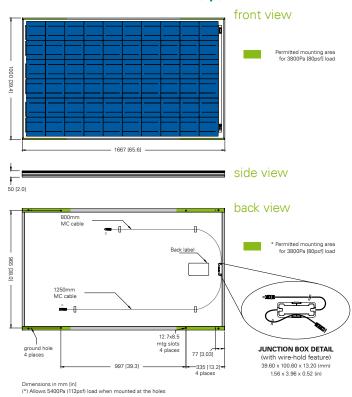
Certified according to IEC 61730-1 and IEC 61730-2. (Photovoltaic module safety qualification, requirements for construction and testing)

Listed to UL 1703 and ULC ORD-C1703 Standard for Safety by Intertek ETL

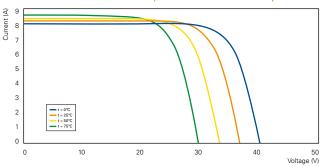
Manufactured in ISO 9001 and ISO 14001 certified factories

Module electrical measurements are calibrated to World radiometric reference via third

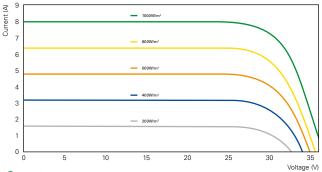




# Dependence of the temperature



# Dependence of the irradiance



# Contact:



Find more information in: www.bpsolar.com

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