

BP Solar's X series is a premium line of PV modules with a 25-year performance warranty and tightly controlled electrical parameters. Providing 126 watts of nominal maximum power, the BP 3126XR is ideal in utility grid-supplemental systems for residences and commercial buildings, providing AC power directly to a load through an inverter. The BP 3126XR's attractive bronze-anodized frame and dark gray backsheet are particularly well-suited for architectural applications. It also features our durable Reliant frame and installation-speeding DC-rated polarized connectors.

Proven Materials and Construction

Quality shows in every aspect of these module's construction and materials:

- 40 multicrystalline silicon solar cells configured as one series string (bypass diodes are included);
- efficiency enhanced by improved cell coating;
- Cells are laminated between sheets of ethylene vinyl acetate (EVA) and high-transmissivity low-iron 3mm tempered glass;
- Frame strength exceeds requirements of certifying agencies.



Weatherproof Connectors

Output is via heavy-duty AWG #12 (3.3mm²) cables with polarized weatherproof DC-rated connectors which provide reliable low-resistance connections, eliminate wiring errors, and speed installation. The cables are asymmetrical and long enough to enable side-by-side or end-to-end module placement in arrays.

Limited Warranties

- Power output for 25 years;
- Freedom from defects in materials and workmanship for 5 years.



Bronze Anodized Reliant Frame

Quality and Safety

The BP 3126XR has been granted the following qualifications and certifications:

- Listing by Underwriter's Laboratories for electrical and fire safety (Class C fire rating);
- Certification by TÜV Rheinland as Class II equipment;
- Conformity with Directives 89/336/EEC, 73/23/EEC and 93/68/EEC of the European Community;
- Certification of compliance with the requirements of IEC 61215, including:
 - repetitive cycling between -40°C and 85°C at 85% relative humidity;
 - simulated impact of 25mm (one-inch) hail at terminal velocity;
 - a "damp heat" test, consisting of 1000 hours of exposure to 85°C and 85% relative humidity;
 - a "hot-spot" test, which determines a module's ability to tolerate localized shadowing (which can cause reverse-biased operation and localized heating);
 - static loading, front and back, of 2400 pascals (50 psf); front loading (e.g. snow) of 5400 pascals (113 psf).



BP 3126XR



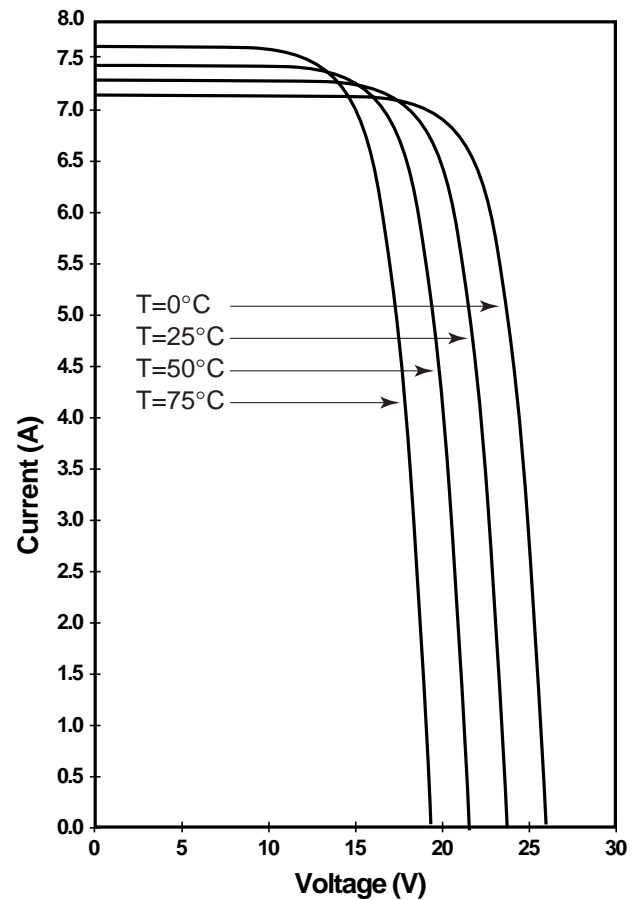
Electrical Characteristics¹

	BP 3126XR	BP 3123XR ⁴
Maximum power (P_{\max}) ²	126W	123W
Voltage at P_{\max} (V_{mp})	18.9V	19.1V
Current at P_{\max} (I_{mp})	6.66A	6.42A
Warranted minimum P_{\max}	119.7W	116.9W
Short-circuit current (I_{sc})	7.29A	7.01A
Open-circuit voltage (V_{oc})	24.0V	24.0V
Temperature coefficient of voltage	(90±0.010)mV/°C	
Temperature coefficient of power	-(0.5±0.05)%/°C	
NOCT ³	47±2°C	
Maximum system voltage	600V (U.S. NEC rating) 750V (TÜV Rheinland rating) 1000V (IEC 61215 rating)	

Notes

1. These data are based on measurements made in accordance with ASTM E1036 corrected to SRC (Standard Reporting Conditions, also known as STC or Standard Test Conditions), which are:
 - illumination of 1 kW/m² (1 sun) at spectral distribution of AM 1.5 (ASTM E892 global spectral irradiance);
 - cell temperature of 25°C.
2. During the stabilization process which occurs during the first few months of deployment, module power may decrease approximately 3% from typical P_{\max} .
3. The cells in an illuminated module operate hotter than the ambient temperature. NOCT (Nominal Operating Cell Temperature) is an indicator of this temperature differential, and is the cell temperature under Standard Operating Conditions: ambient temperature of 20°C, solar irradiation of 0.8 kW/m², and wind speed of 1 m/s.
4. The power of solar cells varies in the normal course of production; the BP 3123XR is assembled using cells of slightly lower power than the BP 3126XR

3126XR I-V Curves



Mechanical Characteristics

Weight

BP 3126XR

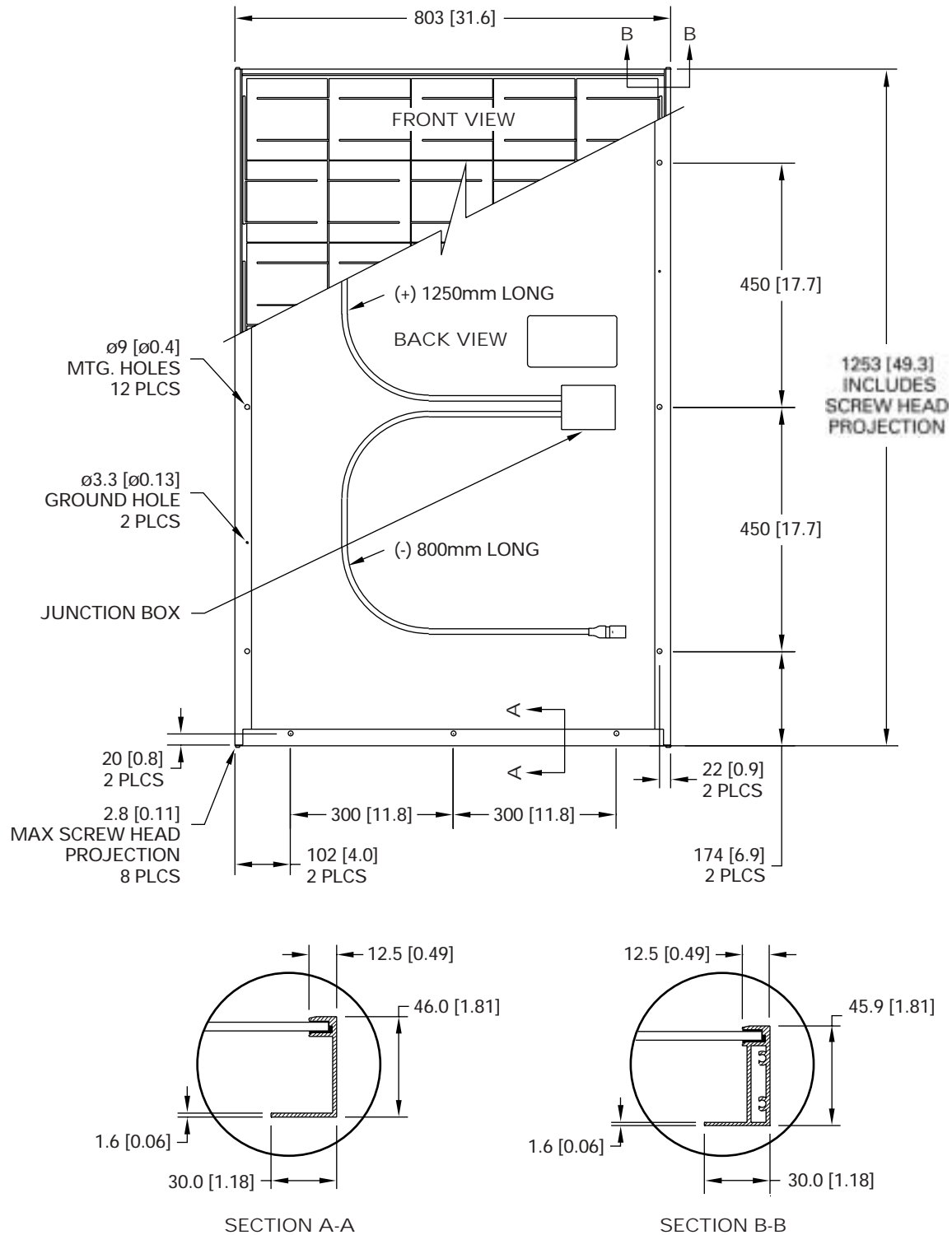
12.5 kg (27.6 pounds)

Dimensions

Unbracketed dimensions are in millimeters.

Dimensions in brackets are in inches.

Overall tolerances $\pm 3\text{mm}$ (1/8")



BP 3126XR



This publication summarizes product warranty and specifications, which are subject to change without notice and should not be used as the definitive source of information for final system design. Additional warranty and technical information may be found on our website **www.bpsolar.com** or may be obtained from your local representative.



Printed on recycled paper with vegetable based inks.