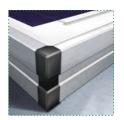


# 220 Watt Photovoltaic Module of Poly 3-Series









durable back sheet



Round profiles for highest stability and better handlingModern design according to haptic handling requirements

Improved IntegraBus™ with 6 long-lasting diodes embedded in thick,

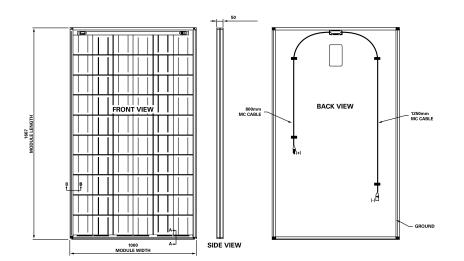


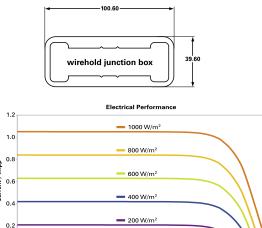


# 220 Watt Photovoltaic Module of Poly 3-Series

# BP 3220 N

## Module Diagram





## **Mechanical Characteristics**

60 polycrystalline silicon cells (156 mm x 156 mm) Solar cells:

in series using low loss interconnects

Front cover: High transmission 3.2 mm ARC glass

EVA **Encapsulant:** 

Back cover: White polyester

Frame: Silver anodised aluminium

Diodes: IntegraBus™ with 6 Schottky diodes

Junction Box: Potted; certified to meet UL1703 flammability test 3.3 mm<sup>2</sup> cable with weatherproof Multi-Contact III Output cables:

connectors. Asymmetrical cable lengths 1250 mm (-)

and 800 mm (+).

Dimensions: 1667 mm x 1000 mm x 50 mm

Weight:

## Warranty and certification

- · Free from defects in materials and workmanship for 5 years.
- 90% power output over 12 years.
- 80% power output over 25 years.

IEC 61215 extended wind load 2400 Pa and 5400 Pa snow load in endmounting, hailstone impact test, damp heat test.

According IEC 61730-1 and IEC 61730-2 May 07 TÜV Rheinland as Safety Class II (IEC 60364) equipment for use in systems up to 1000 V.

Listed by Underwriter's Laboratories for electrical and fire safety (Class C fire rating).

Manufactured in ISO 9001 and ISO 14001 certified factories.

### This data sheet complies with the requirements of EN 50380.





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

## **Electrical Module Performance**

Maximum Power (Pmax): 220 W Tolerance: +/-3% 13.2 % Module efficiency: Efficiency reduction @ 200 W/m2: 97 % +/-3 %

Voltage at P<sub>max</sub> (V<sub>mpp</sub>): 29 0 V 25.8 V Current at P<sub>max</sub> (I<sub>mpp</sub>): 7.6 A 6.1 A Short circuit current (I...): 6.8 A Open circuit voltage (V<sub>oc</sub>): 36.2 V 32.9 V

STC

800 W/m<sup>2</sup> NOCT

Limiting reverse current: 84A

Temperature coefficient of I..: (0.065±0.015) %/K Temperature coefficient of V<sub>oc</sub>:  $-(0.36 \pm 0.05) \%/K$ Temperature coefficient of P<sub>max</sub>: -(0.5±0.05) %/K NOCT: 47+2 °C

Maximum series fuse rating: 15 A Maximum system voltage: 1000 V TÜV SC II

1000 V IEC 61215 Maximum parallel strings w/o fuse: 1 string

Values in accordance with EN 60904-3 (STC).

All solar modules are individually tested prior to shipment, the typical power degradation during the first few days of deployment (LID effect), is incorporated in our factory measurement. All values are in accordance with EN 50380.

## Contact

Your BP Solar distributor