

# SunForte PM3I8B0I

Mono-Crystalline  
Photovoltaic Module



290W  
320W

Power Range  
(290 ~ 320 Wp)



Highly Strengthened Design

Module complies with advanced loading tests to meet 5400 Pa loading requirements



Back Contact Cells

No string in the front side enhances light conversion space



BenQ  
Solar

# SunForte PM3 18B01 (290 ~ 320 Wp)

## Electrical Data

Typ. Nominal Power $P_N$	290 W	295 W	300 W	320 W
Typ. Module Efficiency	17.8%	18.1%	18.4%	19.6%
Typ. Nominal Voltage $V_{mp}$ (V)	54.7	54.7	54.7	54.7
Typ. Nominal Current $I_{mp}$ (A)	5.30	5.40	5.49	5.86
Typ. Open Circuit Voltage $V_{oc}$ (V)	63.70	63.90	64.06	64.80
Typ. Short Circuit Current $I_{sc}$ (A)	6.13	6.13	6.13	6.27
Maximum Tolerance of $P_N$	0 / +3%			

- Above data are the effective measurement at Standard Test Conditions (STC)
- STC: irradiance 1000 W/m<sup>2</sup>, spectral distribution AM 1.5, temperature 25 ± 2 °C, in accordance with EN 60904-3
- The given electrical data are nominal values which account for basic measurements and manufacturing tolerances of ±10%, with the exception of  $P_N$ . The classifications is performed according to  $P_N$

## Temperature Coefficient

NOCT	45 ± 2 °C
Typ. Temperature Coefficient of $P_N$	-0.38 % / K
Typ. Temperature Coefficient of $V_{oc}$	-0.27 % / K
Temperature Coefficient of $I_{sc}$	0.06 % / K

- NOCT: Normal Operation Cell Temperature, measuring conditions: irradiance 800 W/m<sup>2</sup>, AM 1.5, air temperature 20 °C, wind speed 1 m/s

## Mechanical Characteristics

Dimensions (L x W x H)	1559 x 1046 x 46 mm (61.38 x 41.18 x 1.81 in)
Weight	18.6 kg (41.0 lbs)
Front Glass	High transmission tempered glass with AR-Tech, 3.2 mm (0.13 in)
Cell	96 high efficiency back contact cells, 125 x 125 mm (5" x 5")
Back Sheet	Composite film
Frame	Anodized aluminum frame
Junction Box	IP-65 rated with 3 bypass diodes
Cables	1 x 4 mm <sup>2</sup> (0.04 x 0.16 inch <sup>2</sup> ), length: each 1.0 m (39.37 in)
Connector Type	MC4 compatible

## Operating Conditions

Operating Temperature	-40 ~ +80 °C
Ambient Temperature Range	-40 ~ +45 °C
Max. System Voltage	1000V
Serial Fuse Rating	20A
Maximum Surface Load Capacity	Tested up to 5400 Pa according to IEC 61215 (advanced test)

## Warranties and Certifications

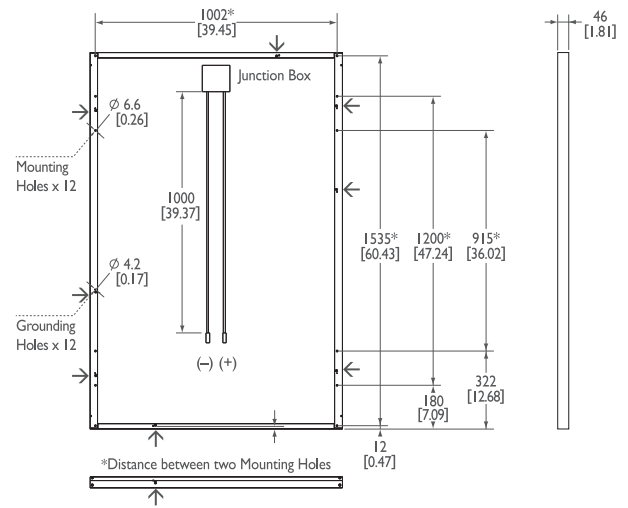
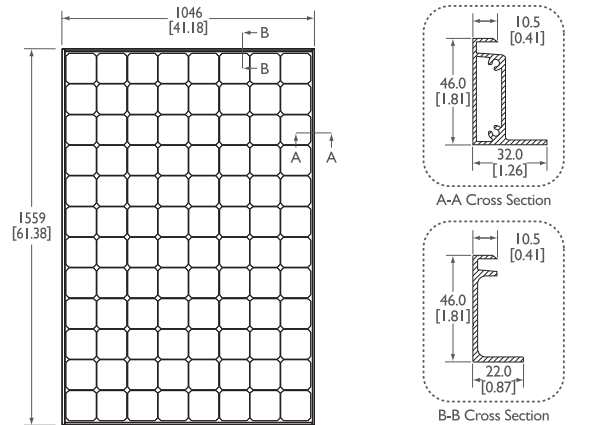
Product Warranty	Maximum 25 years for material and workmanship
Performance Guarantee	Rendimento garantito del 95% per 5 anni e dell' 87% per 25 anni con un degrado lineare
Certifications	According to IEC 61215, IEC 61730 and UL 1703 guidelines *

- \* Please confirm other certifications with official dealers

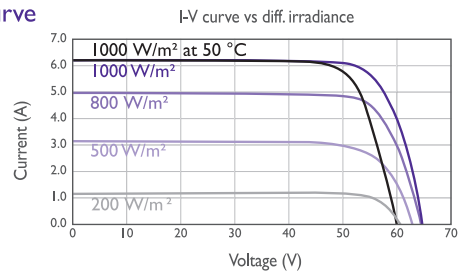
## Packing configuration

Container	20' GP	40' GP	40' HQ
Pieces per pallet	22	22	22
Pallets per container	6	14	28
Pieces per container	132	308	616

## Dimensions mm [inch]



## I-V Curve



Current/voltage characteristics with dependence on irradiance and module temperature.

Dealer Stamp



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