POWERWAVE

INTELLIGENT ENERGY SOLUTIONS


POWERWAVE

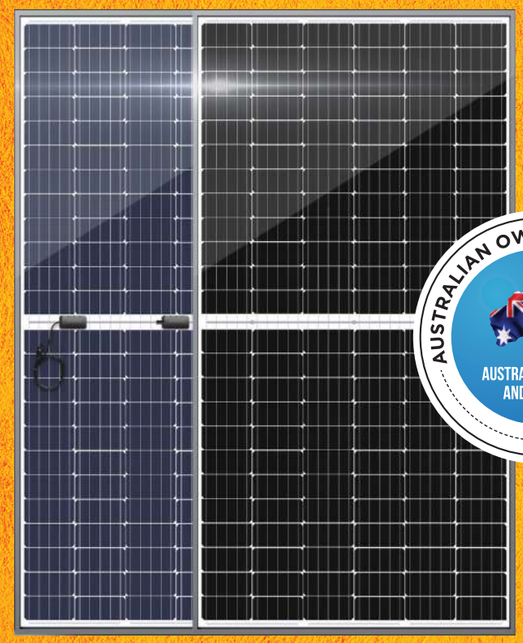
www.powerwave.com.au

sales@powerwave.com.au

131 Millaroo Drive, Helensvale, Gold Coast Australia


THE TWIN POWER SERIES

# BIFACIAL




144 SPLIT CELLS

PW-XXX-BMA-BG

## 370-385W

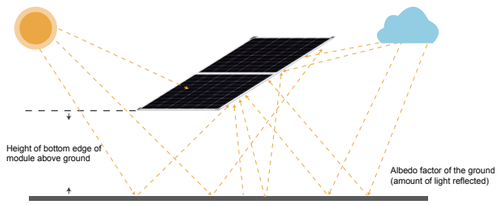
Powerwave's new half-cell bifacial module combines high-effciency bifacial technology with proven half-cell technology, using incidental light from both the front and rear side of each cell. Yields up to 30% more energy from back side power generation, depending on the albedo/ reflectivity of each individual project site.

POWERWAVE

INTELLIGENT ENERGY SOLUTIONS

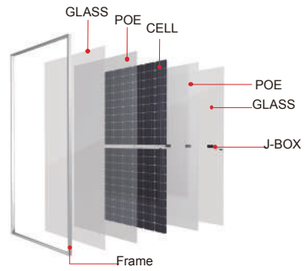
## Maximum Power Output

Uses reflected and scattered light to increase energy generation by an additional 10-30%.




## Upgraded Module Design

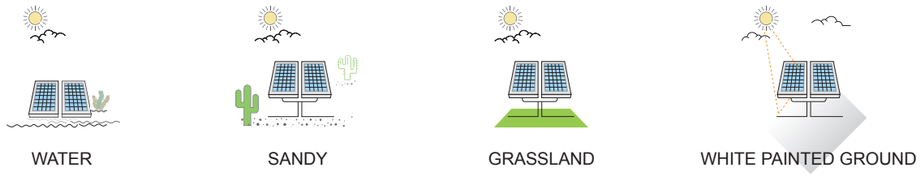
A lighter, 2.0mm tempered AR-coated glass was selected to maintain the same snow and wind load as standard modules, while reducing transportation costs and installation difficulty.




## More Benefits

- Higher Durability and Reliability
- Enhanced safety by excellent fire resistance
- Dual-glass structure minimizes micro-cracks, snail trails, and UV aging
- Lower internal current, lower mismatch loss
- Lower power degradation, more power yield, more returns
- Unique circuit design, better shading tolerance.

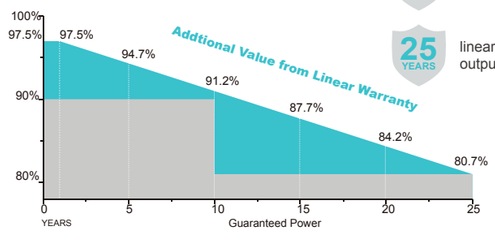
## Perfect for Highly—reflective Project Sites




## Certifications

## Insurances

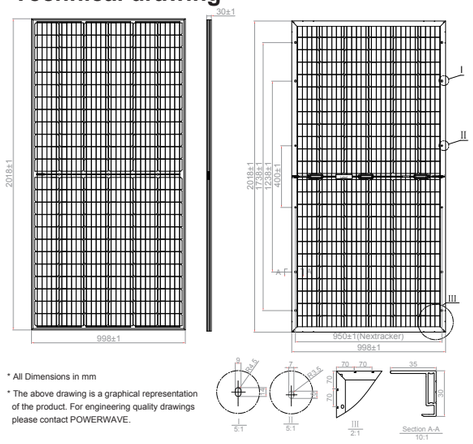
## Warranty




**10 YEARS** Guarantee on product material and workmanship

**25 YEARS** linear power output warranty

## Technical drawing




* All Dimensions in mm

* The above drawing is a graphical representation of the product. For engineering quality drawings please contact POWERWAVE.

## Mechanical Specifications

| | |
|---|---|
| External Dimension | 2018 x 998 x 30mm |
| Weight | 25.5kg |
| Solar Cells | PERC Mono crystalline 156.75 x 78.375 mm (144pcs) |
| Front / Back Glass | 2.0mm AR coating semi-tempered glass, low iron |
| Frame | Anodized aluminium alloy |
| Junction Box | IP68, 3 diodes |
| Output Cables | 4.0 mm², Portrait:255mm(+)/355mm(-);Landscape:1200mm |
| Connector | TT02 for SD903 |

## Packing Configuration

| | |
|---|---|
| Container | 40'HQ |
| Pieces per Pallet | 30 |
| Pallets per Container | 22 |
| Pieces per Container | 660 |

## Electrical Characteristics

| Module Type | PW-370-BMA-BG | | PW-375-BMA-BG | | PW-380-BMA-BG | | PW-385-BMA-BG | |
|---|---|---|---|---|---|---|---|---|
| STC | Front | Back | Front | Back | Front | Back | Front | Back |
| Maximum Power -$P_{mp}$ (W) | 370 | 276 | 375 | 280 | 380 | 284 | 385 | 288 |
| Open Circuit Voltage -$V_{oc}$ (V) | 48.3 | 47.9 | 48.5 | 48.1 | 48.7 | 48.3 | 48.9 | 48.5 |
| Short Circuit Current -$I_{sc}$ (A) | 9.64 | 7.17 | 9.73 | 7.25 | 9.81 | 7.31 | 9.88 | 7.38 |
| Maximum Power Voltage -$V_{mp}$ (V) | 40.5 | 40.6 | 40.7 | 40.8 | 40.9 | 41.0 | 41.1 | 41.2 |
| Maximum Power Current -$I_{mp}$ (A) | 9.14 | 6.80 | 9.22 | 6.87 | 9.30 | 6.93 | 9.37 | 7.00 |
| Module Efficiency STC-$\eta_m$ (%) | 18.37 | | 18.62 | | 18.87 | | 19.12 | |
| Sorting and Binning Tolerance | （0，+4.99） | | | | | | | |
| Power Tolerance（W） | +/-3% | | | | | | | |
| Pmax Temperature Coefficient | -0.38 %/°C | | | | | | | |
| Voc Temperature Coefficient | -0.28 %/°C | | | | | | | |
| Isc Temperature Coefficient | +0.05 %/°C | | | | | | | |

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5

*Tolerance of VOC: +/-2%*
*Tolerance of ISC: +/-4%*

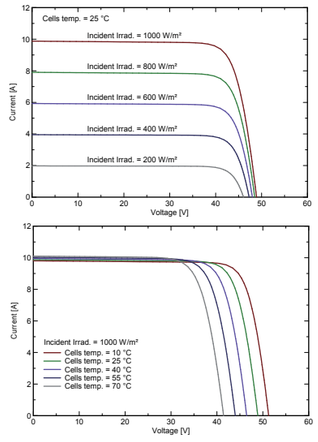
## Rear Side Power Gain (PW-370-BMA-BG )

| Power Gain | 10% | 15% | 20% | 25% | 30% |
|---|---|---|---|---|---|
| Maximum Power -$P_{mp}$ (W) | 407 | 426 | 444 | 463 | 481 |
| Open Circuit Voltage -$V_{oc}$ (V) | 48.3 | 48.3 | 48.3 | 48.3 | 48.3 |
| Short Circuit Current -$I_{sc}$ (A) | 10.60 | 11.10 | 11.57 | 12.07 | 12.51 |
| Maximum Power Voltage -$V_{mp}$ (V) | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 |
| Maximum Power Current -$I_{mp}$ (A) | 10.05 | 10.52 | 10.97 | 11.44 | 11.88 |

## Application Conditions

| | |
|---|---|
| Maximum System Voltage | 1500VDC |
| Maximum Series Fuse Rating | 20A |
| Operating Temperature | -40~+85 °C |
| Nominal Operating Cell Temperature | 45±2 °C |
| Bifaciality | ≥74% |
| Mechanical Load | 2400pa positive and negative load |

## I-V Curve




**Country of Manufacture – China**

Specifications are subject to change without further notification

POWERWAVE
INTELLIGENT ENERGY SOLUTIONS

POWERWAVE
www.powerwave.com.au sales@powerwave.com.au
131 Millaroo Drive, Helensvale, Gold Coast Australia