




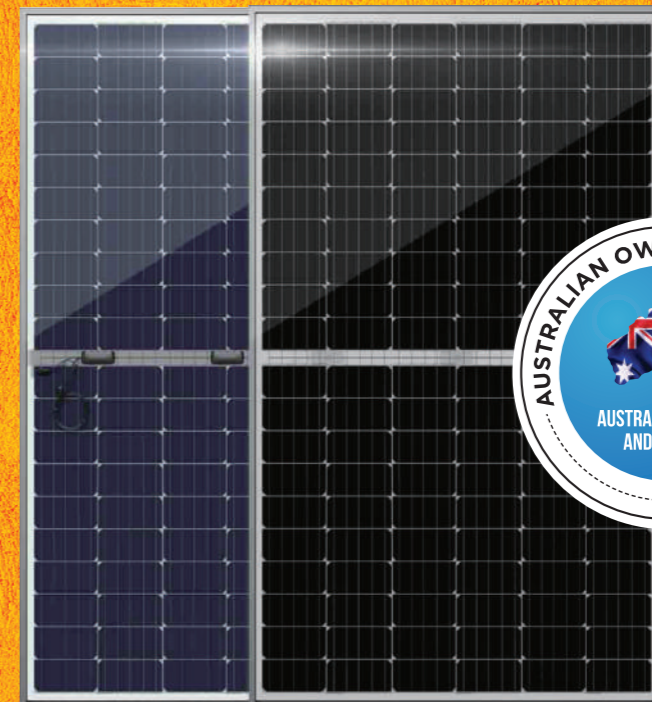
**POWERWAVE**

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 131 Millaroo Drive, Helensvale, Gold Coast Australia



**BIFACIAL**



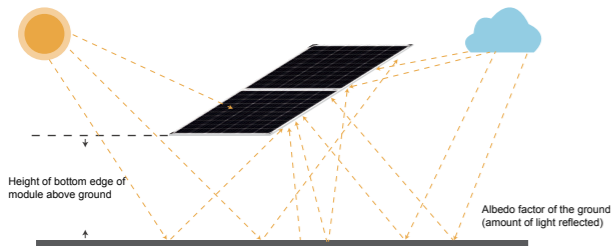
120 SPLIT CELLS  
PW-XXX-BMB-BG  
**310-320W**

Powerwave's new half-cell bifacial module combines high-efficiency 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.



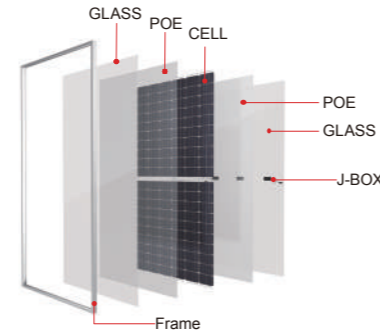
## Maximum Power Output

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

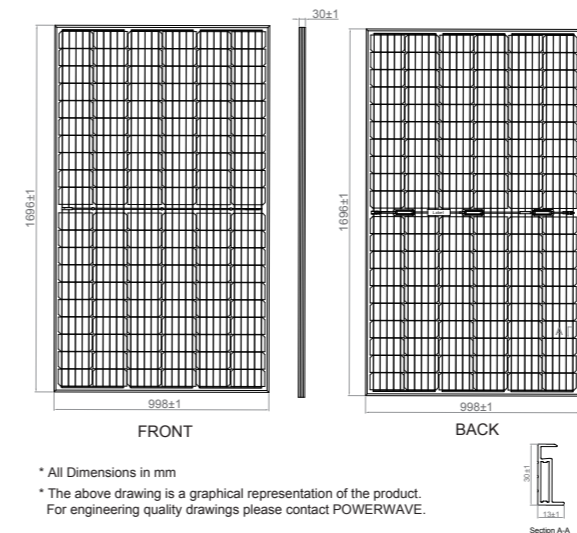


## Upgraded Module Design

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.



## Technical drawing



## Mechanical Specifications

External Dimension	1696 x 998x 30mm
Weight	22.0kg
Solar Cells	PERC Mono crystalline 156.75 x 78.375 mm (120pcs)
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 mm <sup>2</sup> , Potrait:255mm(+)/355mm(-);Landscape:1200mm
Connector	TT02 for SD903

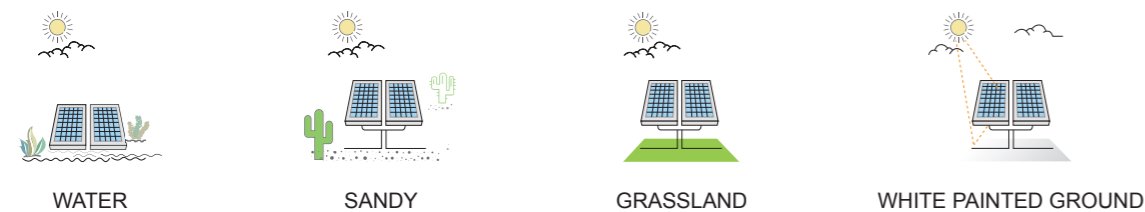
## Packing Configuration

Container	40'HQ
Pieces per Pallet	30
Pallets per Container	26
Pieces per Container	780

## 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

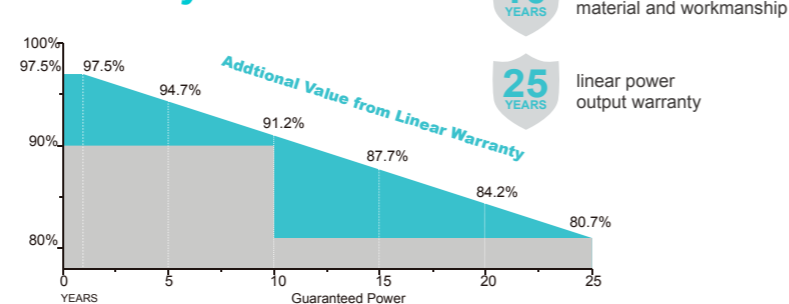


## Certifications



Insurances **PICC**

## Warranty



## Electrical Characteristics

Module Type	PW-310-BMB-BG		PW-315-BMB-BG		PW-320-BMB-BG	
	Front	Back	Front	Back	Front	Back
STC						
Maximum Power -P <sub>mp</sub> (W)	310	231	315	235	320	239
Open Circuit Voltage -V <sub>oc</sub> (V)	40.2	39.9	40.5	40.2	40.7	40.4
Short Circuit Current -I <sub>sc</sub> (A)	9.68	7.22	9.75	7.29	9.84	7.36
Maximum Power Voltage -V <sub>mp</sub> (V)	33.8	33.9	34.1	34.2	34.3	34.4
Maximum Power Current -I <sub>mp</sub> (A)	9.18	6.82	9.24	6.88	9.33	6.95
Module Efficiency STC-η <sub>m</sub> (%)	18.31		18.61		18.91	
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/m<sup>2</sup> module temperature 25°C AM=1.5

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

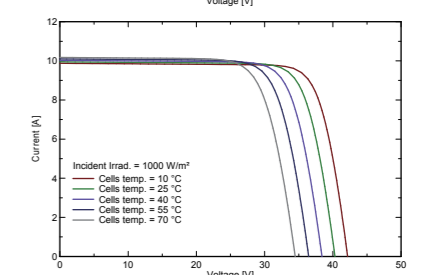
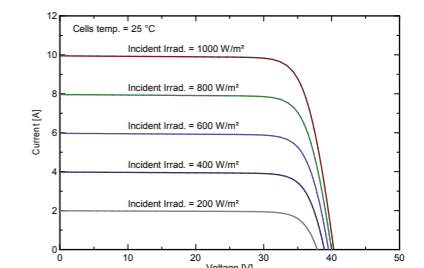
## Rear Side Power Gain(PW-310-BMB-BG )

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P <sub>mp</sub> (W)	341	357	372	388	403
Open Circuit Voltage -V <sub>oc</sub> (V)	40.2	40.2	40.2	40.2	40.2
Short Circuit Current -I <sub>sc</sub> (A)	10.68	11.19	11.65	12.15	12.61
Maximum Power Voltage -V <sub>mp</sub> (V)	33.8	33.8	33.8	33.8	33.8
Maximum Power Current -I <sub>mp</sub> (A)	10.09	10.57	11.01	11.48	11.93

## 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