




**TWINPOWER 3
SERIES**

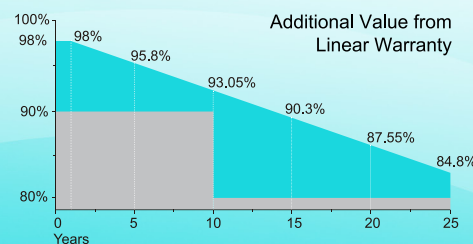
415W
PW-415-BMD-HV



Powerwave has redefined the high-efficiency module series by integrating 182mm silicon wafers with multi-busbar and half-cut cell technologies. Powerwave panels combine creative technology effectively and extremely improved the module efficiency and power output.

KEY FEATURES

-  Less mismatch to get more power
-  Less power loss by minimizing the shading impact
-  Competitive low light performance
-  3 times EL test to ensure best quality
-  Ideal choice for utility and commercial scale projects by reduced BoS and improved ROI

WARRANTY



-  Guarantee on product material and workmanship
-  Linear power output warranty

QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001

PRODUCT CERTIFICATION



INSURANCE



AUSTRALIAN OWNED & OPERATED

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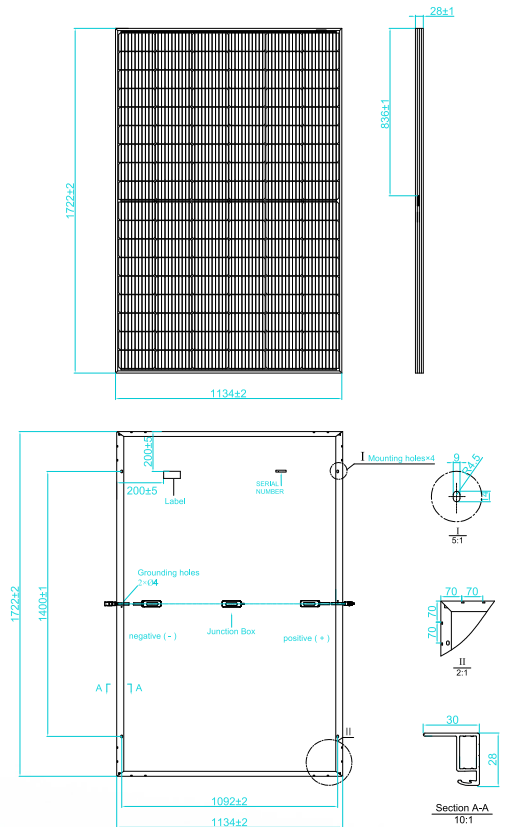
ELECTRICAL CHARACTERISTICS

Module Type	PW-415-BMD-HV	
	STC	NOCT
Maximum Power at STC (Pmp)	415	311
Open Circuit Voltage (Voc)	37.42	34.90
Short Circuit Current (Isc)	13.90	11.23
Maximum Power Voltage (Vmp)	31.16	29.19
Maximum Power Current (Imp)	13.32	10.66
Module Efficiency at STC(ηm)	21.25	
Power Sorting Tolerance	0-4.99	
Maximum System Voltage	1500V DC	
Maximum Series Fuse Rating	25 A	

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5
Power sorting tolerance: 0-4.99

TEMPERATURE CHARACTERISTICS

Pmax Temperature Coefficient	-0.34 %/°C
Voc Temperature Coefficient	-0.26 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40 ~ +85 °C
Nominal Operating Cell Temperature(NOCT)	45±2 °C



MECHANICAL SPECIFICATIONS

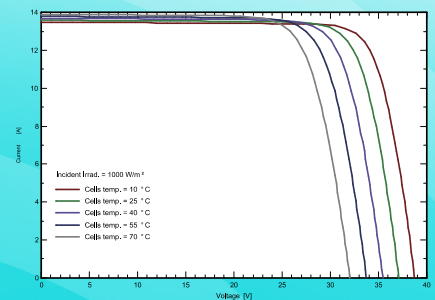
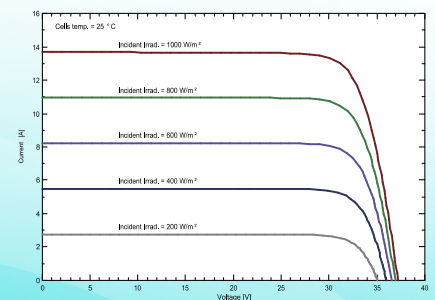
External Dimensions	1722 x 1134 x 28 mm
Weight	19.0 kg
Solar Cells	PERC Mono (108 pcs)
Front Glass	3.2mm AR coating tempered glass, low iron
Frame	Black anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables	4.0mm ² , 250mm(+)/350mm(-) or Customized Length
Connector	Genuine MC4
Mechanical Load	Front side 5400Pa/ Rear side 2400Pa
Fire Safety Class	Class C

PACKING CONFIGURATION

	1722 x 1134 x 28 mm	
Container	20'GP	40'HQ
Pieces per Pallet	39	39
Pallets per Container	6	26
Pieces per Container	234	1014

For details, please consult Powerwave.

I-V CURVE



Made in China

*Specifications are subject to change without further notification.



POWERWAVE

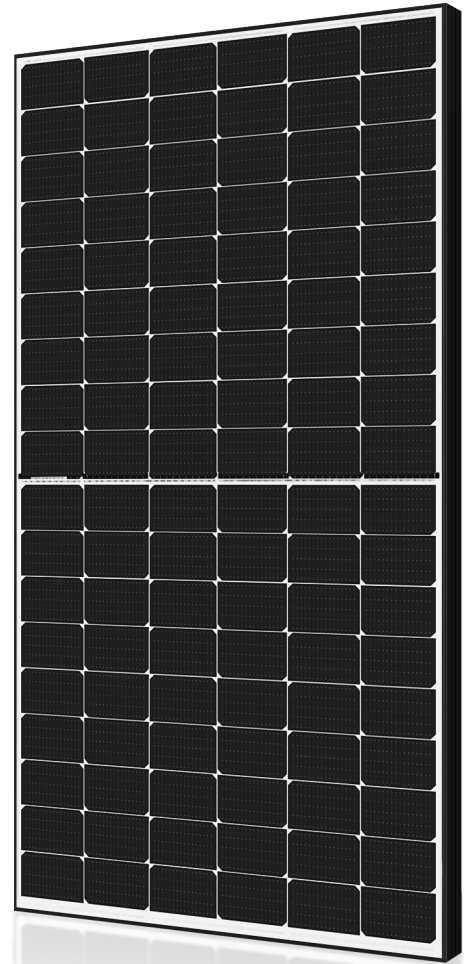
Your panel is only as good as the local company standing behind it.

WHY **POWERWAVE?**

Powerwave is an Australian, privately owned, independent solar brand backed by Australia's largest Online Electrical Wholesaler, Tradezone.

- Australian Owned & Operated
- Over 28 Years in Business
- Reliable & Trustworthy

Tradezone and Powerwave are part of the Kingston Group of Companies. Based on the Gold Coast, the group has been trading for over 25 years and has more than 100 staff as well as an extensive property portfolio. This gives you the peace of mind that local teams and resources are standing by for the full duration of the product's life. Why risk buying a long term asset from a brand that you can't physically speak to or even visit their office in the off chance you need to.



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