

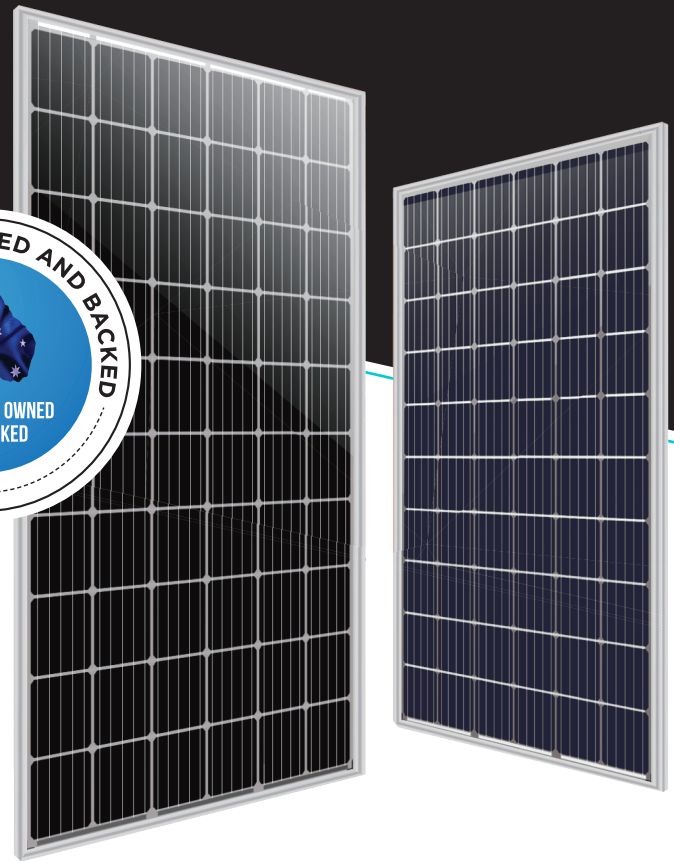
THE OBSIDIAN SERIES MONOCRYSTALLINE

6 INCH 60 CELLS

PW-XXX-6MB-BG

305-310W

PERC BIFACIAL SOLAR MODULE



KEY FEATURES



Enhanced safety by excellent fire resistance



Perfect for sandy, snowy and high latitude regions



Use reflected light, 10%-30% more energy generation



Dual glass reduces micro-cracks, snail trail, UV aging



Less maintenance due to frameless structure with less soiling and snow accumulation.

MANAGEMENT SYSTEM

ISO 9001: Quality management system

ISO 14001: Standard for environmental management system

OHSAS 18001: International standard for occupational health and safety assessment system

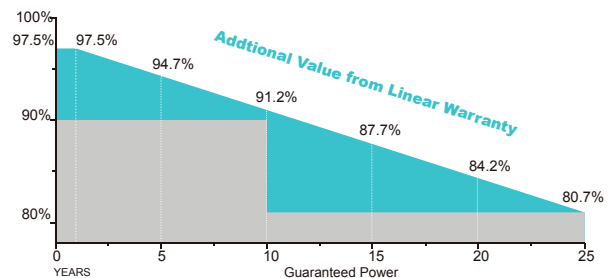
INSURANCE

PICC

PRODUCT CERTIFICATES



WARRANTY



Guarantee on product material and workmanship



linear power output warranty

Specifications are subject to change without further notification

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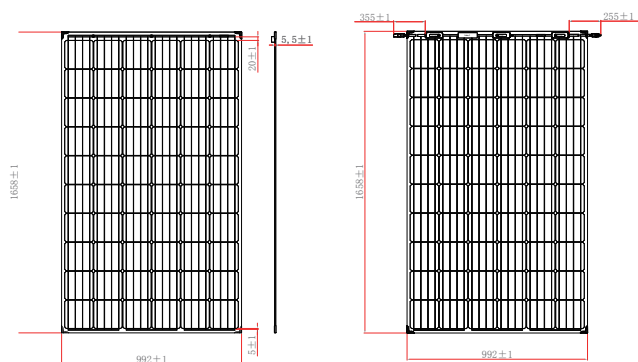
POWERWAVE

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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	1658 x 992 x 5.5mm
Weight	19.0kg
Solar Cells	PERC Mono crystalline 156.75 x 156.75 mm (60pcs)
Front Glass	2.0mm AR coating semi-tempered glass, low iron
Back Glass	2.0mm AR coating semi-tempered glass, low iron
Junction Box	IP68, 3 diodes
Output Cables	4.0 mm ² , Portrait: 255mm(+)/355mm(-) ;Landscape:1200mm
Connector	TT02 for SD903

Packing Configuration

Container	40'HQ
Pieces per Pallet	36
Pallets per Container	26
Pieces per Container	936

Electrical Characteristics

Module Type	PW-305-6MB-BG		PW-310-6MB-BG	
	Front	Back	Front	Back
STC				
Maximum Power -P _{mp} (W)	305	228	310	231
Open Circuit Voltage -V _{oc} (V)	40.1	39.6	40.3	39.8
Short Circuit Current -I _{sc} (A)	9.72	7.26	9.81	7.31
Maximum Power Voltage -V _{mp} (V)	32.8	32.9	33.0	33.1
Maximum Power Current -I _{mp} (A)	9.30	6.93	9.40	6.98
Module Efficiency STC-η _m (%)	18.55		18.85	
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	+0.050 %/°C			

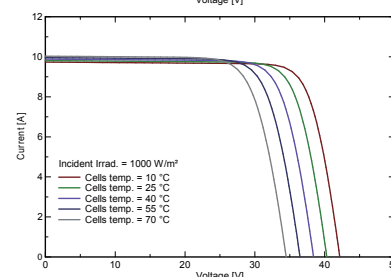
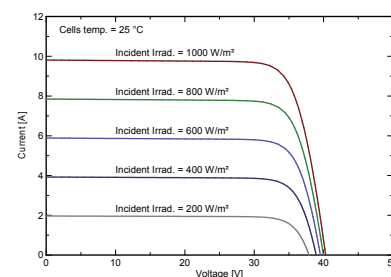
STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5

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

Rear Side Power Gain(SRP-310-6MB-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P _{mp} (W)	341	357	372	388	403
Open Circuit Voltage -V _{oc} (V)	40.3	40.3	40.3	40.3	40.3
Short Circuit Current -I _{sc} (A)	10.79	11.28	11.77	12.26	12.75
Maximum Power Voltage -V _{mp} (V)	33.0	33.0	33.0	33.0	33.0
Maximum Power Current -I _{mp} (A)	10.34	10.81	11.28	11.75	12.22

I-V Curve



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

Country of Manufacture – China

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