



### Made In China

Module Type	PW-335W-144C-M	PW-340W-144C-M	PW-345W-144C-M	
	STC	STC	STC	
Maximum Power at STC (Pmp)	335	340	345	
Open Circuit Voltage (Voc)	46.3	46.6	46.9	
Short Circuit Current (Isc)	9.37	9.42	9.47	
Maximum Power Voltage (Vmp)	38.7	39.0	39.3	
Maximum Power Current (Imp)	8.92	8.98	9.03	
Module Efficiency at STC(ηm)	17.42	17.68	17.93	
Power Tolerance	(0,+4.99)			
Maximum System Voltage	1000 VDC / 1500 VDC			
Maximum Series Fuse Rating	20A			

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

# **Temperature Characteristics**

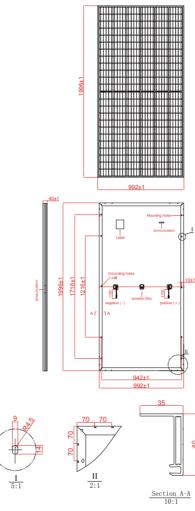
Pmax Temperature Coefficient	-0.38 %/°C
Voc Temperature Coefficient	-0.28 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40∼+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C

**Mechanical Specifications** 

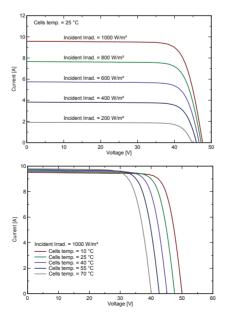
External Dimensions	1996x 992x 40 mm		
Weight	22.5kg		
Solar Cells	Mono crystalline		
Front Glass	3.2 mm AR coating tempered glass, low iron		
Frame	Anodized aluminium alloy		
Junction Box	IP67		
Output Cables	4.0 mm²,cable length: 1100 mm		
Connector	MC4 Compatible		
Mechanical Load	5400 Pa		

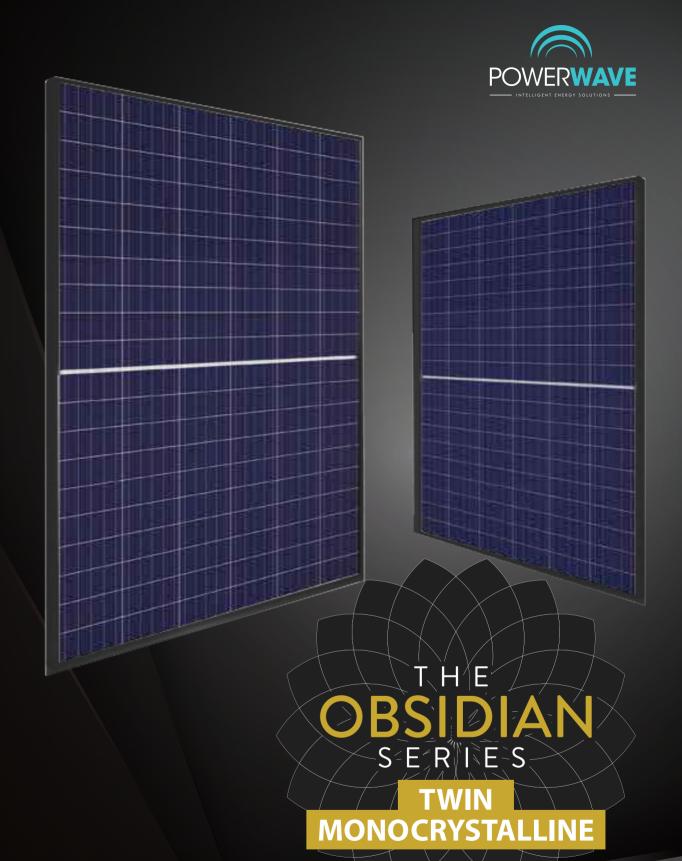
**Packing Configuration** 

	1996x 992x 40 mm		
Container	20'GP	40'GP	
Pieces per Pallet	27	27	
Pallets per Container	10	22	
Pieces per Container	270	594	



#### I-V Curve





335-345<sub>WATT</sub>

POWERWAY



Powerwave Series solar module boasts two identical parts, which are composed of cells that are half the size of ordinary solar cells. By cutting cells into halves, these smaller currents will help reduce "Cell To Module" loss, which means higher output.

In the meantime, the overall space between cells are doubled, and more light will be transferred into power through multiple reflections. Compared to mainstream standard modules, the Powerwave series module has lower current and series resistance which helps minimize mismatch loss, internal power loss, and shadow effect, etc. Once one cell has EL defect or appearance defect, such as black edge or V sharp. After cutting, one intact half can be reused.





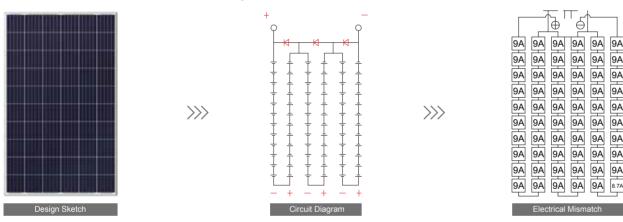


Higher ROI

### Less Mismatch Loss

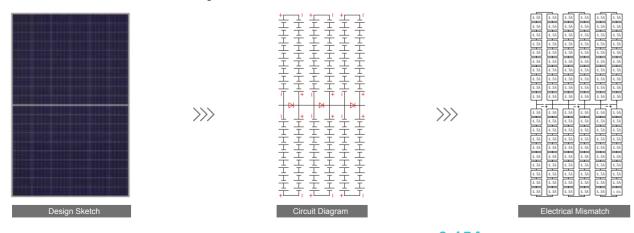
Instead of 6 internal strings of cells, the Powerwave series module has 2 x 6 shorter ones. This design effectively deals with the mismatch happened between cells caused by shadow, out of sync performance degradation, ect.

### Standard Module / With 6 internal strings of cells



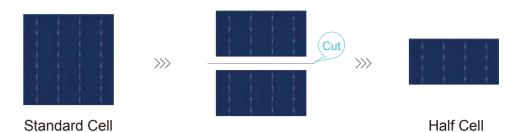
Module current output is 8.7A, current mismatch in series is **0.3A**.

### **Powerwave** / With 6 internal strings of cells



Module current output is 4.5+4.35=8.75A, current mismatch in series is **0.15A**.

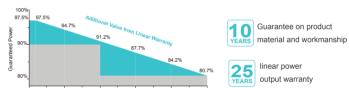
## Less Internal Power Loss



The ribbon length of half-cell is shorter than normal cell. Calculated by Joule's law and Ohm' law, the power loss reduction is nearly 6%.

### **Product Certificates**





# Higher Yield Due to Better Shading Response

Powerwave comprises two separated and identical solar cell arrays, which means the ordinary strings of cells are cut into halves, and these shorter strings compose arrays which has separated current paths. When a module is shaded, only one side shaded array's current will be impacted, while the other array will still be functionally producing power. Under this circumstance, when a module is shaded, the affected working areas of Powerwave will be 50% less.

By cutting solar cell into halves, the internal power loss will be lower and hot spot effect will also be reduced.

#### Standard Module

Insurance

### Powerwave Module

