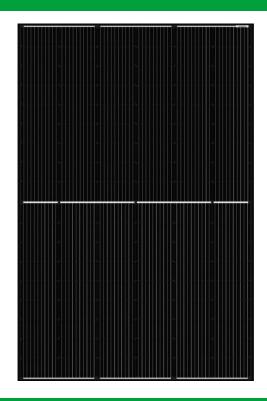
PWSOLAR 415W Full Black **MONOCRYSTALLINE MODULE**



ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 21.25% by using innovative Half-cell design and Multi-busbar(MBB) cell technology.
- Low temperature coefficient and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.
- Power tolerance of $\pm 5\%$.

ELE	CTRI	CAL	CHA	RA	CTE	RIS	TICS	AT	ST	C

Model	PW415Wp-108MFB		
Maximum Power (P _{max})	415W		
Power Tolerance	±5%		
Open Circuit Voltage (VOC)	37.50V		
Short Circuit Current (ISC)	14.24A		
Voltage at Nominal Power (Vmp)	31.30V		
Current at Nominal Power (Imp)	13.26A		
Size of Module	1722 x 1134 x 35mm		
Standard Test condition	Irradiance:1000W/M2 Temp: 25°C , & AM :1.5G spectrum		
Maximum system voltage	1000VDC/1500VDC		
Operating temperature	- 40°C to +85°C		
Module Efficiency	21.25%		

ELECTRICAL CHARACTERISTICS AT STC

NOCT	45 +/·2°C				
Voltage temperature coefficient(Voc)	-0.330%/°C				
Current temperature coefficient I sc)	+0.058%/°C				
Power temperature coefficient(Pmpp)	-0.400%/°C				
Minimum power tolerance	+/-10%				
NOCT	45 +/·2°C				



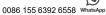














MECHANICAL CHARACTERISTICS

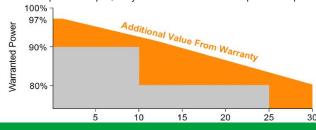
Cell Type	Monocrystalline PERC (182*91mm)		
Number of cell	108pcs (6 x 18)		
Size of Module	1722 x 1134 x 35mm		
Weight	About 21.50kgs		
Front Cover	3.2mm tempered glass with AR coating		
Frame	Anodized aluminum alloy		
Junction Box	IP68, 3 diodes		
Cable	4mm^2 (0.006inches ²), Portait: 300mm (11.81inches); Lanscape: 1200mm		
Connector	MC4 or MC4 compatible		

MODULE WARRANTY

12 year limited product; limited linear power warranty: 12 year 91.20% of nominal power output, 30 year 80.60% of nominal power output.

20 years product warranty; 30 years linear power output warranty

Linear performance warranty from PWSOLAR Standard performance warranty



PACKING

Standarding Packing: 31pcs/Pallet

Module Quantity of 20' container: 330pcs

Module Quantity of 40' container: 806pcs

ENGINEERING DRAWING

IV CURVES

