

PWSOLAR

450W N Type Topcon

MONOCRYSTALLINE MODULE



ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- ◆ High module conversion efficiency up to 23.04% 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 $\pm 3\%$.

ELECTRICAL CHARACTERISTICS AT STC

Model	PW450Wp-108M
Maximum Power (P_{max})	450W
Power Tolerance	$\pm 3\%$
Open Circuit Voltage (VOC)	39.75V
Short Circuit Current (ISC)	13.82A
Voltage at Nominal Power (V_{mp})	33.80V
Current at Nominal Power (I_{mp})	13.32A
Size of Module	1722 x 1134 x 30mm
Standard Test condition	Irradiance: 1000W/M ² Temp: 25°C , & AM : 1.5G spectrum
Maximum system voltage	1000VDC/1500VDC
Operating temperature	- 40°C to +85°C
Module Efficiency	23.04%

ELECTRICAL CHARACTERISTICS AT STC

NOCT	45 $\pm$ 2°C
Voltage temperature coefficient (V_{oc})	-0.33%/°C
Current temperature coefficient (I_{sc})	+0.058%/°C
Power temperature coefficient (P_{mpp})	-0.400%/°C
Minimum power tolerance	$\pm 10\%$
NOCT	45 $\pm$ 2°C



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MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline
Number of cell	108pcs (2 x 54)
Size of Module	1722 x 1134 x 30mm
Weight	About 22.00kgs
Front Cover	3.2mm tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction Box	IP68, 3 diodes
Cable	4mm ² (0.006inches ²),300mm(11.81inches)/customized
Connector	MC4 or MC4 compatible

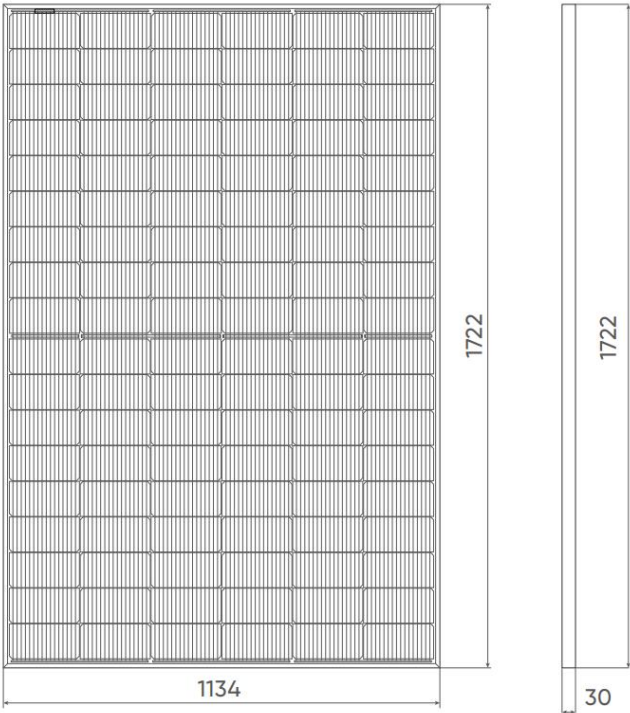
MODULE WARRANTY

30-year limited warranty of 80% power output; 10-year limited warranty of 90% power output; 12-year limited warranty of materials and workmanship.

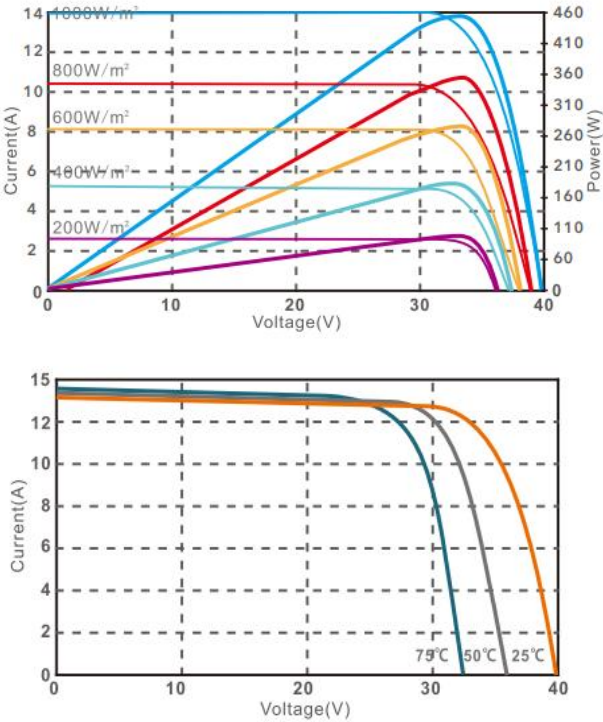
PACKING

Standard Packing: 36pcs/Pallet Module Quantity of 20' container: 216pcs Module Quantity of 40' container: 936pcs

ENGINEERING DRAWING



IV CURVES



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