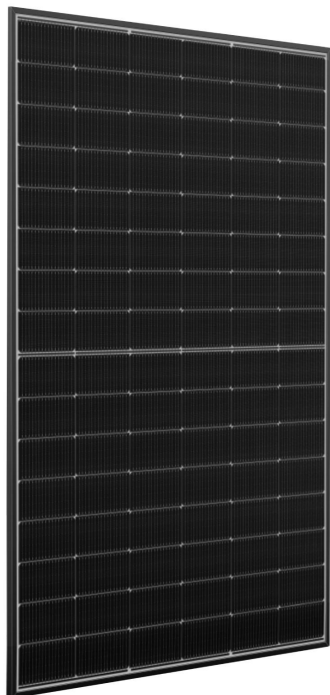


PWSOLAR

450W N Type Topcon

MONOCRYSTALLINE MODULE



ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- ◆ High module conversion efficiency up to 22.52% 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	PWDG450Wp-96M
Maximum Power (P_{max})	450W
Power Tolerance	$\pm 3\%$
Open Circuit Voltage (VOC)	37.22V
Short Circuit Current (ISC)	15.36A
Voltage at Nominal Power (V_{mp})	30.88V
Current at Nominal Power (I_{mp})	14.60A
Size of Module	1762 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	22.52%

ELECTRICAL CHARACTERISTICS AT STC

NOCT	45 \pm 2°C
Voltage temperature coefficient (V_{oc})	-0.330%/°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



Room 101, No. 5 Building, No. 9 Haikou Road, Shinan District, Qingdao, China 266000



0086 532 85872070



0086 155 6392 6558



0086 138 6421 6496



sales@pwsolarpower.com



info@pwsolarpower.com



www.pwsolarpower.com

MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline（182 x 105mm）
Number of cell	96pcs（2 x 48）
Size of Module	1762 x 1134 x 30mm
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),300mm(11.81inches)/Customized
Connector	MC4 or MC4 compatible

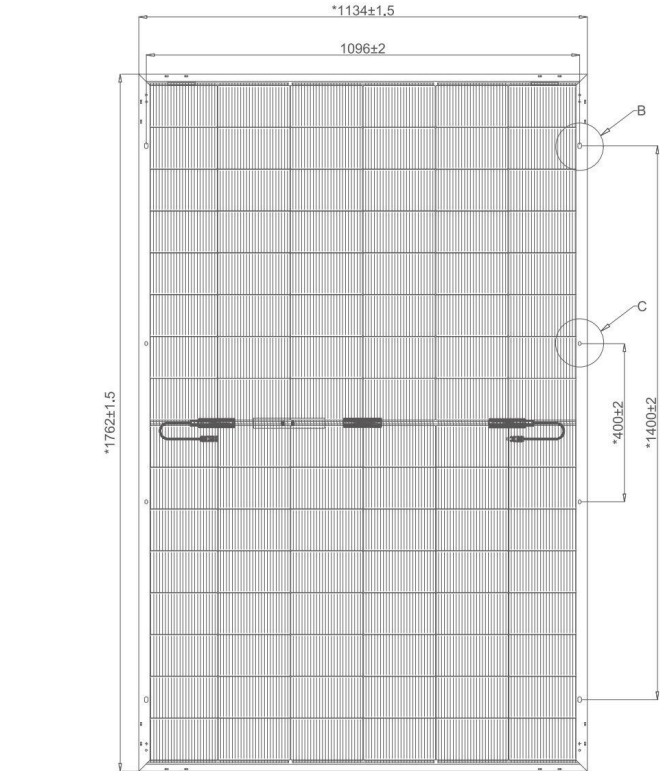
MODULE WARRANTY

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

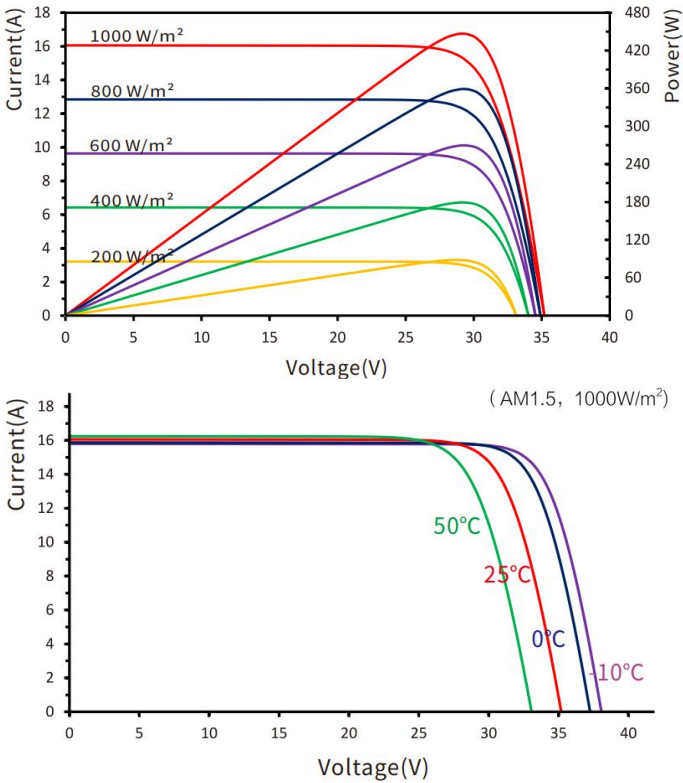
PACKING

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

ENGINEERING DRAWING



IV CURVES



Room 101, No. 5 Building, No. 9 Haikou Road, Shinan District, Qingdao, China 266000
0086 532 85872070 0086 155 6392 6558 0086 138 6421 6496
sales@pwsolarpower.com info@pwsolarpower.com www.pwsolarpower.com