

PWSOLAR

610W Bifacial N Type

MONOCRYSTALLINE MODULE



ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- ◆ High module conversion efficiency up to 22.60% 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 module 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	PWDG610Wp-144M
Maximum Power (P_{max})	610W
Power Tolerance	$\pm 3\%$
Open Circuit Voltage (VOC)	51.50V
Short Circuit Current (ISC)	14.75A
Voltage at Nominal Power (V_{mp})	42.81V
Current at Nominal Power (I_{mp})	14.25A
Size of Module	2382 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	22.60%

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	Mono N type 182.2*191.60
Number of cell	144pcs (6 x 24)
Size of Module	2382 x 1134 x 30mm
Weight	About 33.00kgs
Front Cover	3.2mm tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction Box	IP68, 3 diodes
Cable	4mm ² (0.006inches ²), Positive : 400mm, Negative: 200mm Length can be customized
Connector	MC4orMC4compatible
Maximum Load Capacity(Pa)	2400(wind load)/2400(snow load)

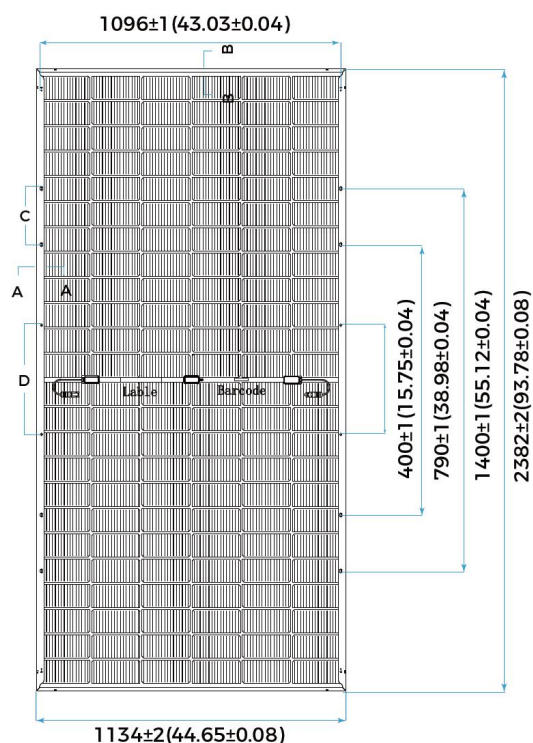
MODULE WARRANTY

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

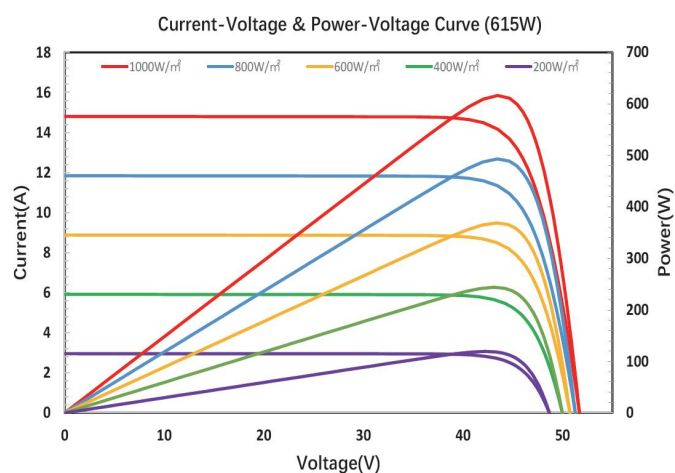
PACKING

Standard Packing: 36pcs/Pallet Module Quantity of 20' container: 150pcs Module Quantity of 40' container: 720pcs

ENGINEERING DRAWING



IV CURVES



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