PWSOLAR 650W N Type Bifacial **MONOCRYSTALLINE MODULE**



ELECTRICAL CHARACTERISTICS AT STC

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 23.25% 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).

- 40°C to +85°C

23.25%

- Potential induced degradation (PID) resistance.
- Power tolerance of ±3%.

Model	PWDG650Wp-156M
Maximum Power (P _{max})	650W
Power Tolerance	±3%
Open Circuit Voltage (VOC)	57.60V
Short Circuit Current (ISC)	14.10A
Voltage at Nominal Power (Vmp)	48.33V
Current at Nominal Power (Imp)	13.45A
Size of Module	2465 x 1134 x 30mm
Standard Test condition	Irradiance:1000W/M2 Temp: 25°C , & AM :1.5G spectrum
Maximum system voltage	1000VDC/1500VDC

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







Operating temperature

Module Efficiency





MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline
Number of cell	156pcs (78 x 2)
Size of Module	2465 x 1134 x 30mm
Weight	About 34.00kgs
Front Cover	3.2mm tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction Box	IP68, 3 diodes
Cable	4mm ² (0.006inches ²), (+): 400mm (-): 200mm/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

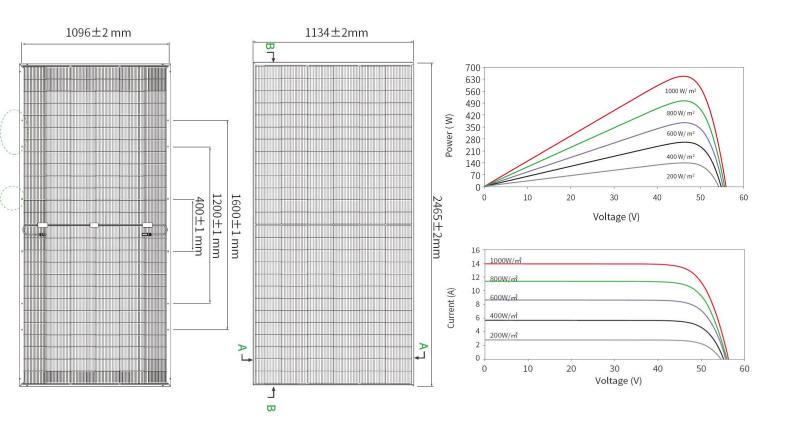
Standard Packing: 36pcs/Pallet

Module Quantity of 20' container: 180pcs

Module Quantity of 40' container: 576pcs

ENGINEERING DRAWING

IV CURVES











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