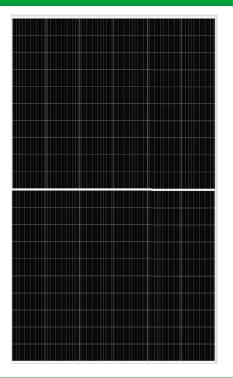
# PWSOLAR 650W 132 cells series MONOCRYSTALLINE MODULE



# **ADVANCED PERFORMANCE & PROVEN ADVANTAGES**

- High module conversion efficiency up to 20.92% 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.
- **\phi** Power tolerance of ±5%.

#### ELECTRICAL CHARACTERISTICS AT STC

Model	PW650Wp-132M
Maximum Power (P <sub>max</sub> )	650W
Power Tolerance	±5%
Open Circuit Voltage (VOC)	45.50V
Short Circuit Current (ISC)	18.36A
Voltage at Nominal Power (Vmp)	37.70V
Current at Nominal Power (Imp)	17.26A
Size of Module	2384 x 1303 x 35mm
Standard Test condition	Irradiance:1000W/M2 Temp: 25ºC , & AM :1.5G spectrum
Maximum system voltage	1000VDC/1500VDC
Operating temperature	- 40°C to +85°C
Module Efficiency	20.92%

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

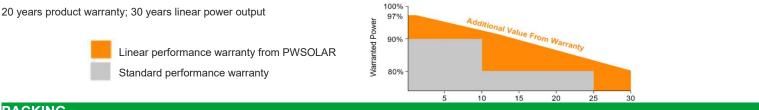
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## MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline (210*105)
Number of cell	132pcs ( 6 x 22)
Size of Module	2384x 1303 x 35mm
Weight	About 30.60kgs
Front Cover	3.2mm tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction Box	IP68, 3 diodes
Cable	4mm <sup>2</sup> (0.006inches <sup>2</sup> ), Postive : 300mm, Negative: 200mm Length can be customized
Connector	MC4 or MC4 compatible
Maximum Load Capacity(Pa)	2400(wind load)/2400(snow load)

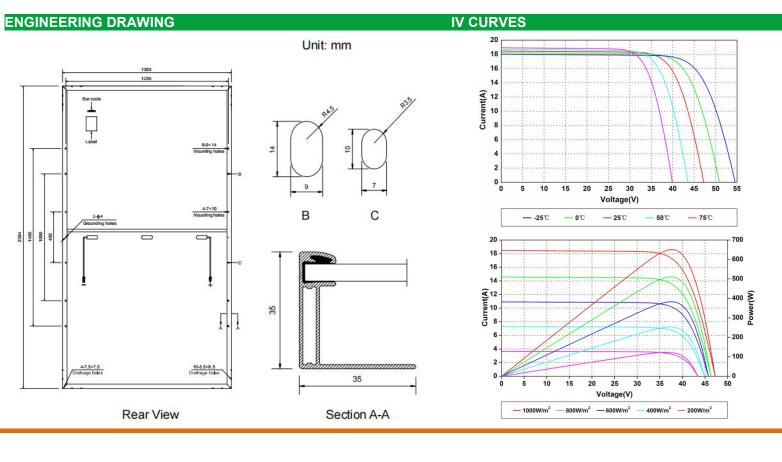
#### MODULE WARRANTY

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



### PACKING

Standarding Packing: 31pcs/Pallet Module Quantity of 20' container:124pcs Module Quantity of 40' container: 527pcs





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