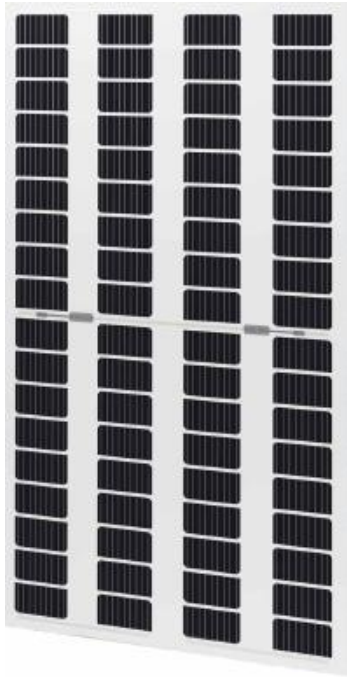


# PWSOLAR

## 45% 220W Double Glass MONOCRYSTALLINE MODULE



### ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- ◆ High module conversion efficiency up to 11.90% 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.
- ◆ Positive power tolerance of 0 ~ +5w.

### ELECTRICAL CHARACTERISTICS AT STC

Model	PWDG220Wp-72M
Maximum Power ( $P_{max}$ )	220W
Power Tolerance	0 ~ + 5W
Open Circuit Voltage (VOC)	24.95V
Short Circuit Current (ISC)	11.64A
Voltage at Nominal Power ( $V_{mp}$ )	20.62V
Current at Nominal Power ( $I_{mp}$ )	10.67A
Size of Module	1767 x 1040 x 6mm
Standard Test condition	Irradiance:1000W/M2 Temp: 25°C , & AM :1.5G spectrum
Maximum system voltage	1000VDC/1500VDC
Operating temperature	- 40°C to +85°C
Module Efficiency	11.90%

### ELECTRICAL CHARACTERISTICS AT STC

NOCT	45 +/- 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	+/-10%
NOCT	45 +/- 2°C



## MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline (156.75*156.75)
Number of cell	72pcs ( 4 x 18)
Size of Module	1767 x 1040 x 6mm
Weight	About 25.50kgs
Front Glass	2.5mm Semi tempered coated glass
Interlayer	EVA/POE/PVB
Back Glass	2.5mm Semi tempered coated glass
Frame	No Frame
Junction Box	IP67, 3 diodes
Cable	4mm <sup>2</sup> (0.006inches <sup>2</sup> ), 900mm
Connector	MC4 or MC4 compatible
Maximum Load Capacity(Pa)	2400(wind load)/2400(snow load)

## MODULE WARRANTY

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

## PACKING

Standarding Packing: 38pcs/Pallet

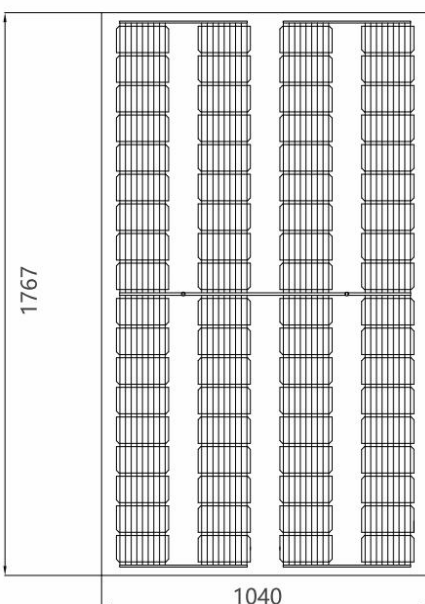
Module Quantity of 20' container: 456pcs

Module Quantity of 40' container: 988pcs

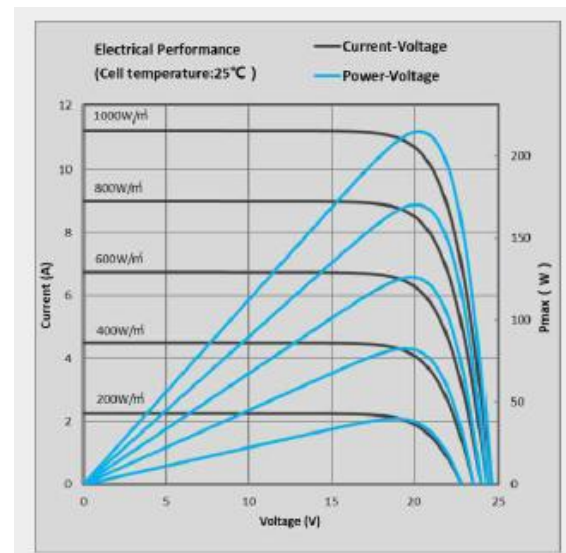
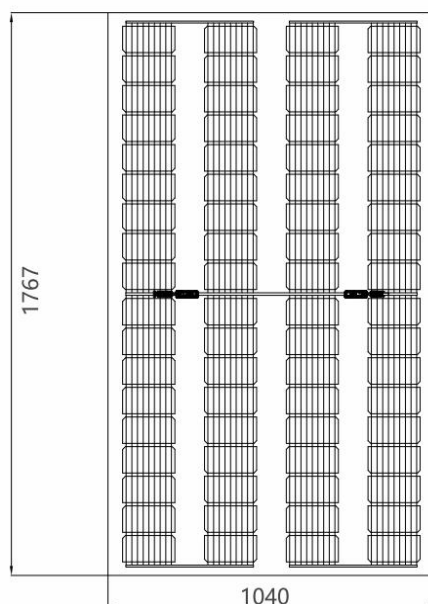
## ENGINEERING DRAWING

## IV CURVES

Front View



Back View



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