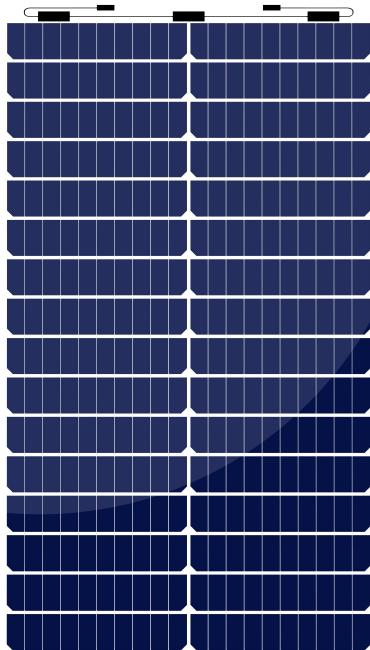


# PWSOLAR

## 50W Flexible

### MONOCRYSTALLINE MODULE



#### ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- ◆ High module conversion efficiency up to 18.94% 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 0 ~ +5w

#### ELECTRICAL CHARACTERISTICS AT STC

Model	PWFSP50M-32
Maximum Power ( $P_{max}$ )	50W
Power Tolerance	0 ~ +5w
Open Circuit Voltage (VOC)	18.20V
Short Circuit Current (ISC)	2.69A
Voltage at Nominal Power ( $V_{mp}$ )	21.41V
Current at Nominal Power ( $I_{mp}$ )	2.82A
Size of Module	660 x 400 x 3mm
Standard Test condition	Irradiance:1000W/M2 Temp: 25°C , & AM :1.5G spectrum
Maximum system voltage	1500VDC
Operating temperature	- 40°C to +85°C
Module Efficiency	18.94%

#### ELECTRICAL CHARACTERISTICS AT STC

NOCT	45 +/- 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	+/-10%
NOCT	45 +/- 2°C



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MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline
Number of cell	32pcs ( 16 x 2)
Size of Module	660 x 400 x 3mm
Weight	About 1.30kgs
Front Cover	Lightweight high transparent polymer materials
Back Board Color	White
Junction Box	IP67
Cable	4mm <sup>2</sup> (0.006inches <sup>2</sup> ), 300mm/Customized
Connector	MC4 or MC4 compatible

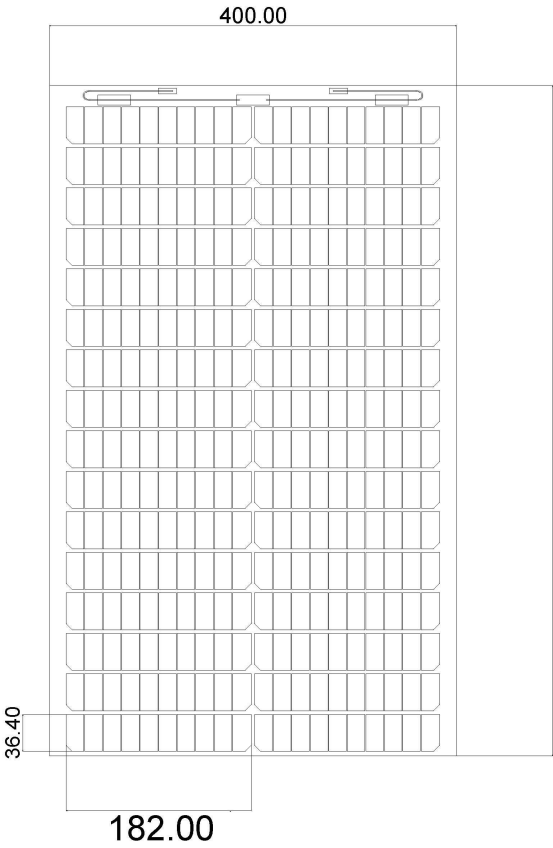
MODULE WARRANTY

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

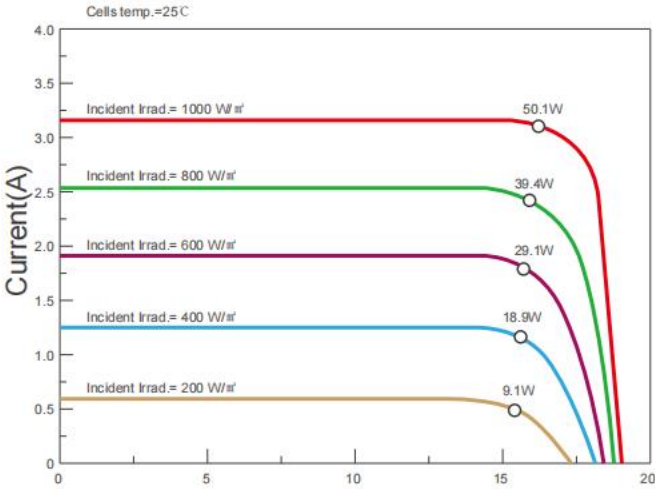
PACKING

Standard Packing: 36pcs/Pallet      Module Quantity of 20' container: 1350pcs      Module Quantity of 40' container: 3350pcs

ENGINEERING DRAWING



IV CURVES



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Specifications in this data sheet are subject to change without prior notice