

## Semi Flexible Solar panel OS50-18MFX

We can produce the flexible solar panel size and the junction box location by cutomers' request. Pls do not hesitate to let us know if you have special idea for the semi flexible solar panel.

This 55W semi flexible solar panel can be widely used on yacht, boat, RV roof and so on. Our 2<sup>nd</sup> generation newest product main advantage is higher efficient in producing power, more light in weight and more water proof and durable in long use.

### 1. Mechanical Data:

- 1).Flexible Angle : up to 15 degree
- 2).Back Sheet: aluminum or fiberglass (PCB)
- 3).J-Box: IP 67 rated
- 4).Thickness of ETFE: 0.025mm
- 5).Thickness of solar panel: 2.5mm or 3mm
- 6).Cables/Connector: 1.5meters, 2\*2.5mm<sup>2</sup> cable with MC4 connectors
- 7).Type of Solar Cells: Monocrystalline silicon cells
- 8).Eyelets: 4pcs in the corners
- 9). By pass diode: 2pcs (10A )

### 2. Electrical Data:

- |  |             |
|--|-------------|
| 1).Peak Power(Pmax)-----                     | 55W         |
| 2).Maximum Power Voltage (Vmp)-----          | 18V         |
| 3).Maximum Power Current (Imp)-----          | 3.06A       |
| 4).Open Circuit Voltage (Voc)-----           | 21.24V      |
| 5).Short Circuit Current (Isc)-----          | 3.37A       |
| 6).Maximum System Voltage-----               | DC 500V     |
| 7).Cell Efficiency-----                      | 17.5%       |
| 8).Power Tolerance-----                      | ±3%         |
| 9).Number of Cells-----                      | 36pcs       |
| 10).Operating Temperature-----               | -20°C~+50°C |
| 11).Storage Temperature-----                 | -20°C~+30°C |
| 12).Temperature Coefficients of Isc(%)-----  | +0.09%/°C   |
| 13).Temperature Coefficients of Pmax(%)----- | -0.37%/°C   |
| 14).Temperature Coefficients of Voc(%)-----  | -0.34%/°C   |

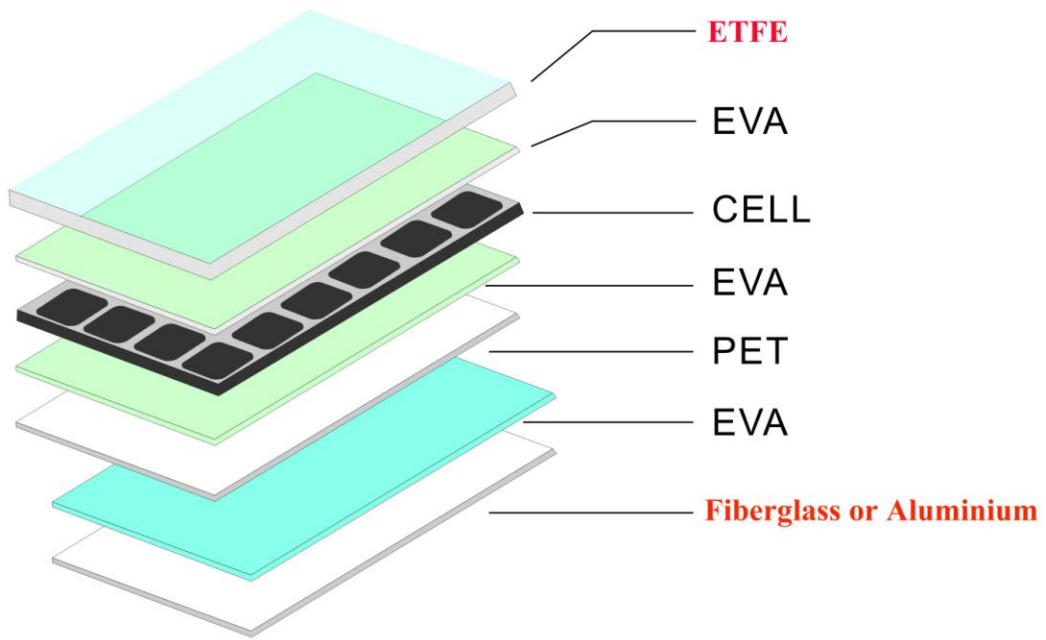
**(Test Condition: AM=1.5, E=1000W/m<sup>2</sup> , Tc=25°C)**

### 3. Flexible Solar Panel Size&Packing Information:

- |                                |               |
|--------------------------------|---------------|
| 1).Solar Panel Size (1pc)----- | 755*530*2.5mm |
| 2).Packing Size(1pc)-----      | 845*565*42mm  |
| 3).Carton Size(10pcs)-----     | 865*585*215mm |
| 4).Net Weight (1pc)-----       | 2.03kgs       |
| 5).Q'ty/ctn-----               | 5pcs          |
| 6).Gross Weight (5pcs)-----    | 17.1kgs       |

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### 4. Product Structure:



### 5. Designed Drawing

