

Double -Sided ETFE



Applications

- For motor boats and sailing yachts
- For camping, caravan, off-road and 4x4
- For outdoor activities
- For industry, agriculture, shipping and building sectors

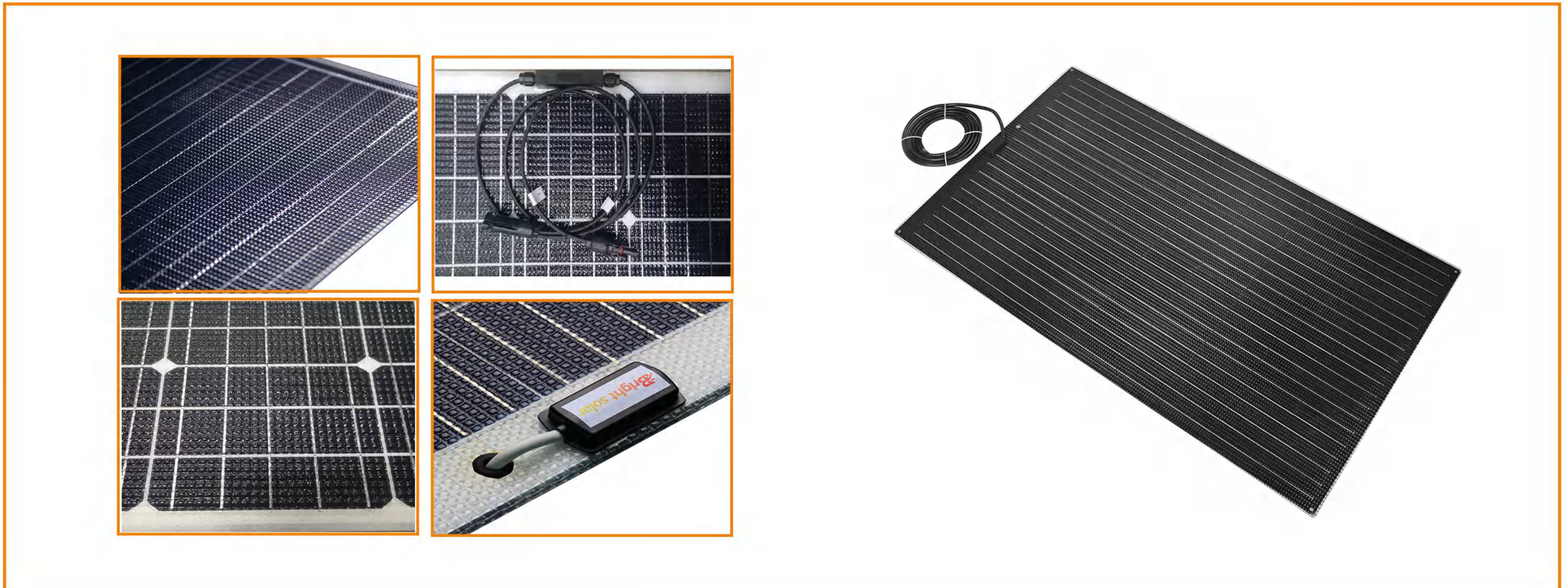


Features

- 100% sea & salt water resistant
- Flexibility 1%~3%
- 0~3% tolerance output power
- Cable : 3m length without MC4 compatible connectors or 2*1m with MC4 compatible connectors
- IP67 junction box cable output, sealed and fully waterproof
- Lightweight, easy to install
- 304 stainless steel eyelet for easy fixing and installation
- DuPont ETFE surface to reduce slip risks when wet
- PERC solar cells with highest performance class for maximum power
- Rounded corners to prevent risk of injuries
- 100% maintenance-free, self cleaning surface
- Maximum allowed curvature: 3% (3cm/1m)
- 2 years warranty power output
- All substrate is 100% encapsulated inside



Module Diagram & Construction

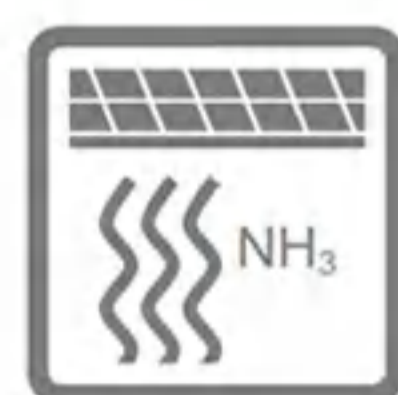


Product specifications & Electrical testing

| Model | BS20-FA-M(E) | BS30-FA-M(E) | BS50-FA-M(E) | BS60-FA-M(E) | BS80-FA-M(E) | BS100-FA-M(E) | BS120-FA-M(E) | BS140-FA-M(E) | BS160-FA-M(E) | BS180-FA-M(E) | BS200-FA-M(E) |
|---------------------------------|---|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Cell | PERC 158.75*158.75 mm Mono solar cell | | | | | | | | | | |
| Accessories (option) | 2*1M cable+MC4 connectors & 3M cable not MC4 & 5M cable not MC4 | | | | | | | | | | |
| Size[mm] | 450*365*4 | 665*365*4 | 610*510*4 | 1035*360*4 | 720*665*4 | 1150*510*4 | 1030*665*4 | 1220*670*4 | 1328*665*4 | 1400*700*4 | 1500*665*4 |
| Weight[kg] | 0.9 | 1.5 | 1.9 | 2.4 | 3.5 | 3.8 | 4.1 | 4.6 | 5.3 | 5.5 | 5.8 |
| Tolerance[%] | 0~+3% | | | | | | | | | | |
| Nominal peak power[W] | 20W | 30W | 50W | 60W | 80W | 100w | 120W | 140W | 160W | 180W | 200W |
| Vmp[V] | 18V | | | | | | | | | | |
| Ipm[A] | 1.11 | 1.67 | 2.78 | 3.33 | 4.44 | 5.56 | 6.67 | 7.78 | 8.89 | 10.00 | 11.11 |
| Voc[V] | 21.6V | | | | | | | | | | |
| Isc[A] | 1.20 | 1.80 | 3.00 | 3.60 | 4.80 | 6.00 | 7.20 | 8.40 | 9.60 | 10.80 | 11.99 |
| Efficiency[%] | 22.5% | | | | | | | | | | |
| Construction | Double - Sided DuPont ETFE | | | | | | | | | | |
| Power temperature coefficient | -0.24%/°C | | | | | | | | | | |
| Voltage temperature coefficient | -0.25%/°C | | | | | | | | | | |
| Current temperature coefficient | -0.06%/°C | | | | | | | | | | |
| NOCT | 45±2°C | | | | | | | | | | |
| Max system voltage: | 1000V DC | | | | | | | | | | |



Resistance to salt-spray corrosion



Resistant to ammonia corrosion

