



# Mono Silicon PERC Solar Cell ECM1010BSE2

ET-P-183.75R-10BB-Bifacial

## PRODUCT ADVANTAGES

1

Adopt self-developed advanced PERC cell structure.

2

Large size silicon wafer with unique front fingers design.

3

10BB design enhance the busbar strength of the cell, increases the power generating .

4

65%~75% bifaciality rate leads to more power output of modules.

5

Fine binning method, effectively reducing the packaging loss of modules.

6

Excellent anti-PID performance, reduce power lose caused by harsh environments.

## MECHANICAL DATA AND DESIGN

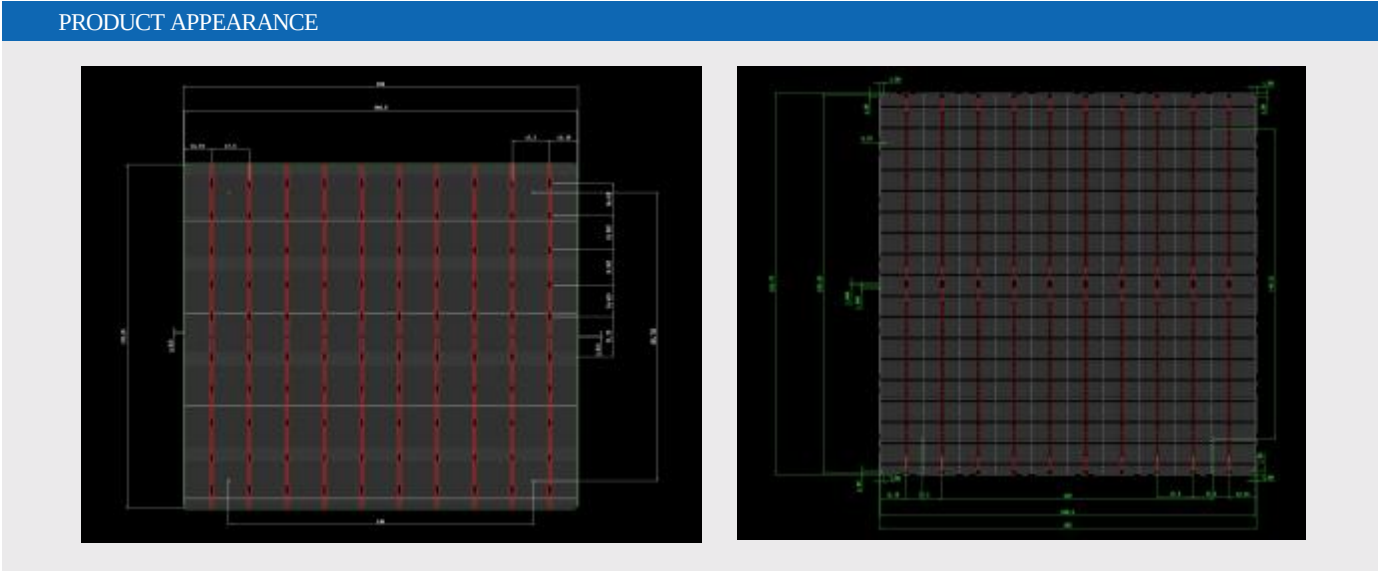
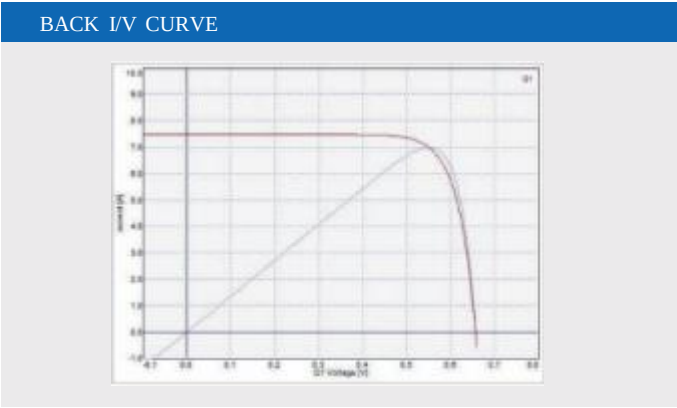
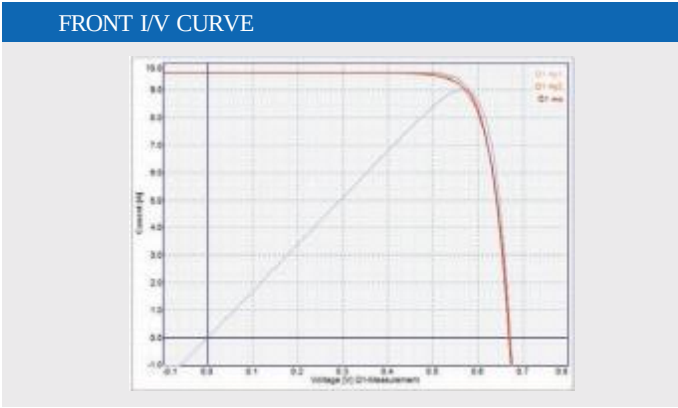
|           |                                                                                                                                                                                                           |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimension | 182mm×183.75mm±0.25mm, Φ256mm±0.25mm                                                                                                                                                                      |
| Thickness | 170±17μm                                                                                                                                                                                                  |
| Front (-) | Blue composite anti-reflection coating (Silicon dioxide+Silicon nitride);10 bus bars, 0.06±0.015mm width ;<br>The front side of solar cell is designed as a half sheet; The number of the fingers is 172. |
| Back (+)  | Alumina and silicon nitride composite passivation layer; 1.1±0.15mm width silver anode.<br>The number of aluminum fingers is 180.                                                                         |

| ELECTRIC PERFORMANCE PARAMETERS |         |         |         |        |        |       |
|---------------------------------|---------|---------|---------|--------|--------|-------|
| Eta                             | Pmpp(W) | Umpp(V) | Impp(A) | Uoc(V) | Isc(A) | FF(%) |
| 23.5%                           | 7.86    | 0.594   | 13.055  | 0.693  | 13.666 | 81.88 |
| 23.4%                           | 7.83    | 0.593   | 13.037  | 0.692  | 13.656 | 81.80 |
| 23.3%                           | 7.80    | 0.593   | 12.957  | 0.691  | 13.620 | 81.64 |
| 23.2%                           | 7.76    | 0.592   | 12.941  | 0.690  | 13.603 | 81.62 |
| 23.1%                           | 7.73    | 0.590   | 12.933  | 0.689  | 13.573 | 81.59 |
| 23.0%                           | 7.70    | 0.589   | 12.887  | 0.687  | 13.557 | 81.50 |
| 22.9%                           | 7.66    | 0.588   | 12.862  | 0.686  | 13.543 | 81.40 |
| 22.8%                           | 7.63    | 0.586   | 12.834  | 0.685  | 13.512 | 81.25 |
| 22.7%                           | 7.60    | 0.584   | 12.832  | 0.683  | 13.505 | 81.20 |
| 22.6%                           | 7.56    | 0.581   | 12.818  | 0.681  | 13.496 | 81.03 |
| 22.5%                           | 7.53    | 0.580   | 12.811  | 0.681  | 13.472 | 80.99 |

| BACK ELECTRIC PERFORMANCE PARAMETERS |                |         |         |         |        |        |       |
|--------------------------------------|----------------|---------|---------|---------|--------|--------|-------|
| Eta                                  | Range          | Pmpp(W) | Umpp(V) | Impp(A) | Uoc(V) | Isc(A) | FF(%) |
| 16.5%                                | 16.50% or more | 5.55    | 0.564   | 9.659   | 0.657  | 10.436 | 79.45 |
| 16.0%                                | 16.00%-16.50%  | 5.38    | 0.562   | 9.399   | 0.655  | 10.174 | 79.27 |
| 15.5%                                | 15.50%-16.00%  | 5.22    | 0.560   | 9.138   | 0.653  | 9.917  | 79.02 |
| 15.0%                                | 15.00%-15.50%  | 5.05    | 0.559   | 8.859   | 0.650  | 9.662  | 78.85 |

| STANDARD TEST CONDITION |          |
|-------------------------|----------|
| Illumination intensity  | 1000W/m² |
| Spectrum                | AM1.5G   |
| Illumination intensity  | 25°C     |

| TEMPERATURE COEFFICIENTS                      |          |
|-----------------------------------------------|----------|
| Open-circuit voltage temperature coefficient  | -0.32%/K |
| Short-circuit current temperature coefficient | +0.05%/K |
| Max. power temperature coefficient            | -0.48%/K |



The above technical parameters are subject to technical changes and tests, and EliTe solar. reserves the right of final interpretation.