Cassini

## CASSINI ENERGY INC

# CA210RTBP16A - Monocrystalline TOPCon Bifacial Cell Product

## Product Technical Features

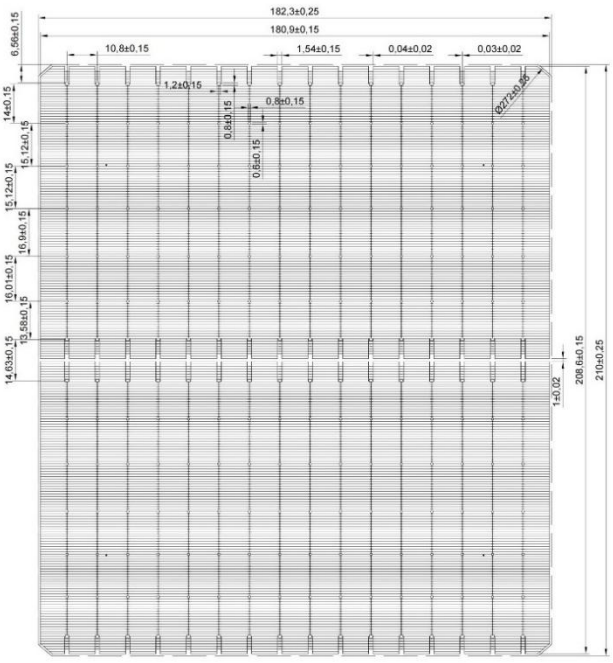
- High conversion efficiency and high reliability
- Strong low - light response
- Low - temperature Poly - Si deposition process
- Precise Boron - doping process
- Extremely low light-induced degradation
- Low encapsulation loss
- Advanced passivation doping technology
- Contact enhancement technology

## Mechanical Properties

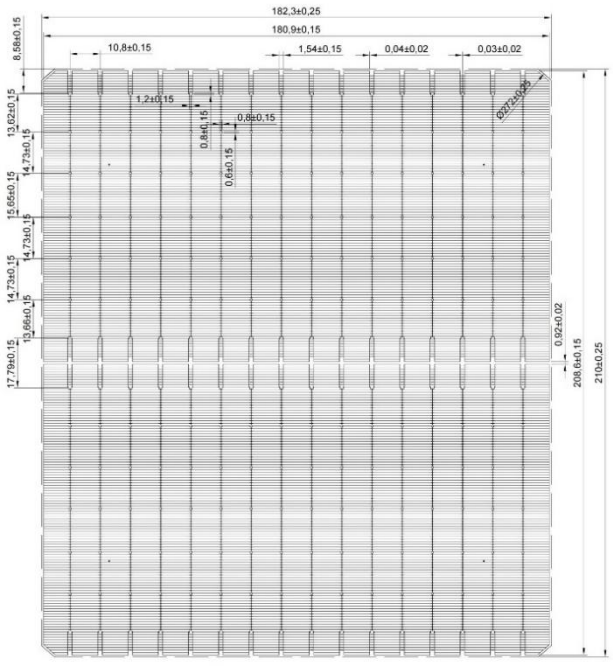
| | |
|---|---|
| Base material | N-type phosphorus-doped monocrystalline silicon wafers |
| Thickness | 130±10%μm |
| Size | 182.3mm*210mm±0.25mm, Φ272mm±0.25mm |
| Front side | 16 busbars，236 fingers，blue silicon nitride compound anti-reflection coating |
| Back side | 16 busbars，228 fingers，blue silicon nitride compound anti-reflection coating |

## Product Appearance

Front




Back




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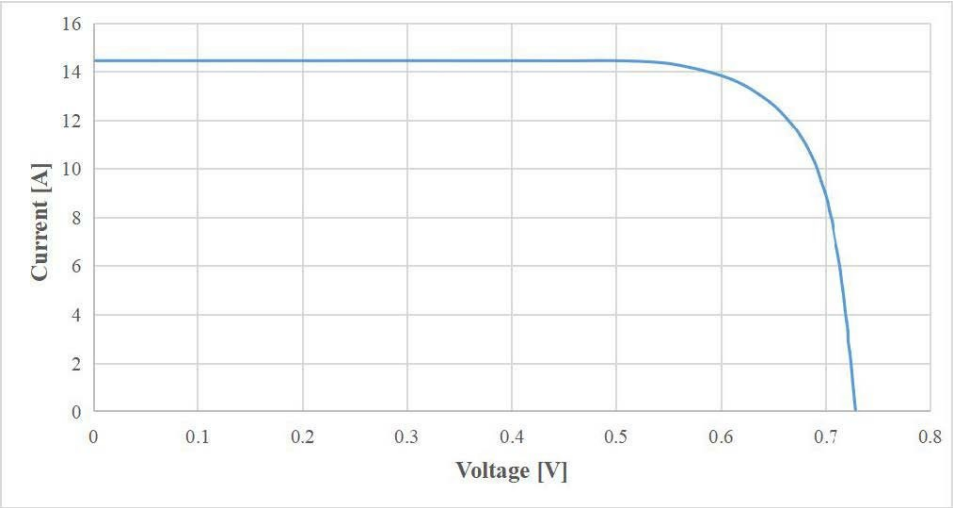
## Electrical Characteristics

| Eff. Grade (%) | Isc(A) | Voc(V) | Impp(A) | Vmpp(V) | Pmpp(W) | FF (%) |
|---|---|---|---|---|---|---|
| 26.0 | 15.806 | 0.735 | 15.369 | 0.646 | 9.93 | 85.46 |
| 25.9 | 15.787 | 0.734 | 15.333 | 0.645 | 9.89 | 85.35 |
| 25.8 | 15.769 | 0.733 | 15.298 | 0.644 | 9.85 | 85.23 |
| 25.7 | 15.750 | 0.732 | 15.286 | 0.642 | 9.81 | 85.12 |
| 25.6 | 15.731 | 0.731 | 15.250 | 0.641 | 9.78 | 85.01 |
| 25.5 | 15.709 | 0.730 | 15.238 | 0.639 | 9.74 | 84.91 |
| 25.4 | 15.698 | 0.728 | 15.226 | 0.637 | 9.70 | 84.87 |
| 25.3 | 15.671 | 0.727 | 15.190 | 0.636 | 9.66 | 84.8 |
| 25.2 | 15.637 | 0.726 | 15.154 | 0.635 | 9.62 | 84.76 |
| 25.1 | 15.612 | 0.725 | 15.141 | 0.633 | 9.58 | 84.68 |
| 25.0 | 15.589 | 0.724 | 15.105 | 0.632 | 9.55 | 84.58 |
| 24.9 | 15.548 | 0.723 | 15.068 | 0.631 | 9.51 | 84.58 |
| 24.8 | 15.496 | 0.722 | 15.032 | 0.630 | 9.47 | 84.64 |
| 24.7 | 15.472 | 0.721 | 14.995 | 0.629 | 9.43 | 84.55 |
| 24.6 | 15.412 | 0.720 | 14.958 | 0.628 | 9.39 | 84.65 |

Standard Test Conditions: 1000W/㎡， AM1.5 ， 25℃

The above technical parameters are subject to technical changes and testing. CASSINI ENERGY reserves the right of final interpretation.

## I-V Curve




## Temperature Coefficient

| | |
|---|---|
| **Power Temperature Coefficient** | TkPower: -(0.30±0.0085) %/K |
| **Voltage Temperature Coefficient** | TkVoltage: -(0.26±0.0068) %/K |
| **Current Temperature Coefficient** | TkCurrent: +(0.046±0.0039) %/K |

## Packaging And Storage

The packaging box is shrink - wrapped, with foam air cushions around for shock absorption and cushioning, providing the best protection during transportation.

The packaged batteries should be stored in a well - ventilated and dry indoor environment. The humidity should be controlled below 60%RH, the temperature should be controlled below 25±5°C, and the storage time should not exceed 60 days.

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