



182 Monocrystalline Bifacial TOPCon Solar Cell

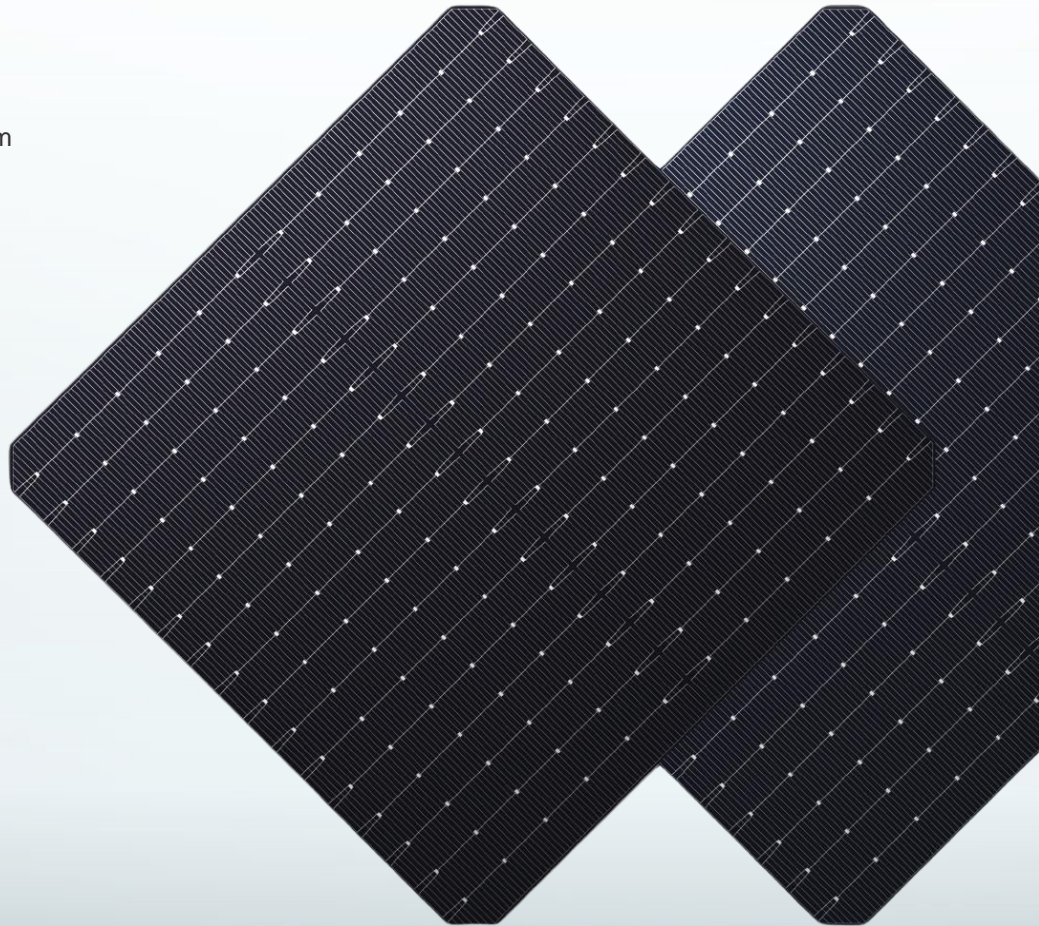
efficiency of testing production

25.3%~25.7%



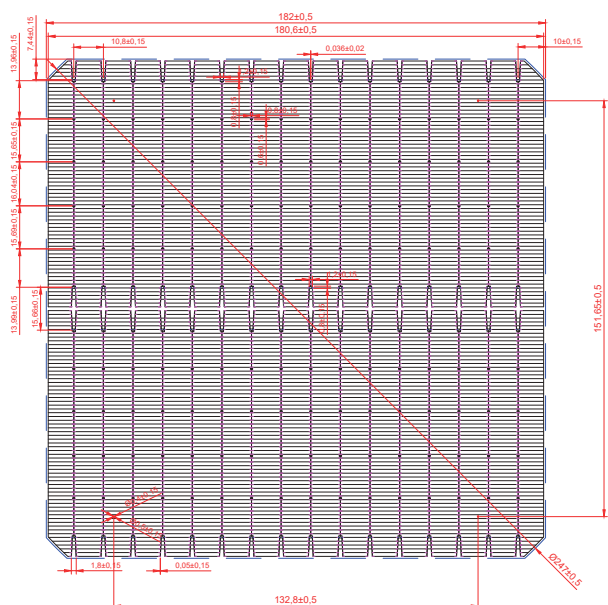
Dimension : 182mm × 182mm ± 1.5mm

Cell Thickness : 182mm ± 18 μm

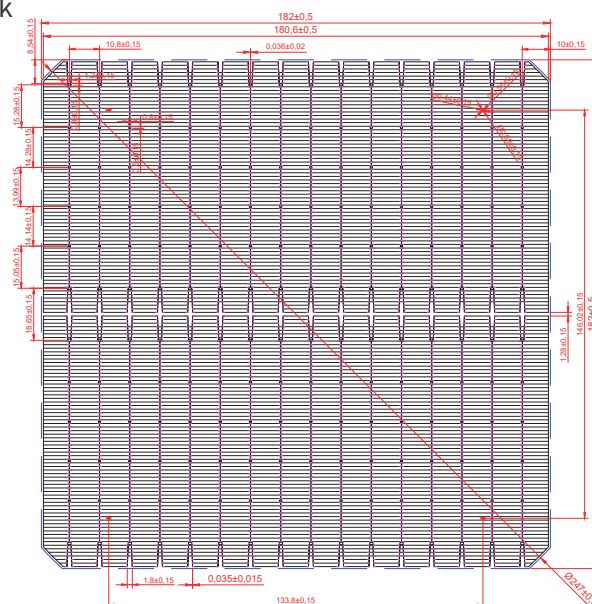


JH18216BTPA01

Front



Back



Electrical Performance

| Grade | Unit | 25.20 | 25.10 | 25.00 | 24.90 | 24.80 | 24.70 | 24.60 | 24.50 | 24.40 |
|-------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Voc | V | 0.726 | 0.725 | 0.724 | 0.723 | 0.722 | 0.721 | 0.720 | 0.719 | 0.718 |
| Isc | A | 13.731 | 13.707 | 13.699 | 13.666 | 13.622 | 13.581 | 13.548 | 13.516 | 13.481 |
| Vmpp | V | 0.624 | 0.623 | 0.622 | 0.621 | 0.620 | 0.619 | 0.618 | 0.617 | 0.616 |
| Imp | A | 13.333 | 13.311 | 13.305 | 13.267 | 13.223 | 13.180 | 13.147 | 13.112 | 13.068 |
| Pmpp | W | 8.32 | 8.29 | 8.25 | 8.22 | 8.19 | 8.15 | 8.12 | 8.09 | 8.05 |

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

Physical Characteristics

| | | | |
|--------------------|----------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------|
| Substrate material | N-type mono-crystalline silicon wafer-TOPCon | Front | 16*0.036mm±0.02mm bus bars (silver) , Silicon oxide + blue silicon nitride compound anti-reflection coating (PID Free) |
| Cell thickness | 130μm±13μm | Back | 16*0.036mm±0.02mm bus bars (silver) , Blue silicon nitride compound anti-reflection coating |
| Dimension | 182mm*182mm±0.5mm | | |
| Diagonal | 247mm±0.5mm | | |

Temperature Coefficient

| | |
|-----------|--------------------|
| TkPower | -(0.33±0.02) %/k |
| TkVoltage | -(0.27±0.03) %/k |
| TkCurrent | +(0.045±0.015) %/k |

Anti-PID

Potential Induced Degradation(-1500V,192h):<5%

Packaging, Storage

Solar cells are closely packed with soft sponge around and heat shrink is used around the box unit. Outer packing box must have shock buffer, to be suitable for long-distance delivery.

After packaging, cells should be stored indoors in the conditions of humidity below 60%, and temperature (20±10) °C . Cells should be sampling inspected again if the storage time over 90 days.

Light induced degradation test

Using Xenon lamp (Irradiance of 1000W/m²,with spectrum AM 1.5) to irradiate test cells, after a total irradiation of 5 kwh/m² ,the degradation of maximum output power of cells is ≤2%