

# P-Type Perc

## 210 Mono Bifacial 12BB Cell



GRAND MOUNTAIN



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### KEY FEATURES



High Photoelectric Conversion Efficiency



Low PID, LID Effect



Excellent Resistance to Hidden Cracks



High Power Generation

### Average Efficiency

# 22.9~23.4%

### Technical Data And Design

|   |                             |                          |
|---|-----------------------------|--------------------------|
| TkPower: -0.38%/K   | TkVoltage: -0.36 %/K        | TkCurrent: +0.07%/K      |
| Dimension: 210mm*210mm±0.25mm   | Cell Thickness :175±17.5 μm | Solderability : ≥0.9N/mm |
| Front (-): 12 * 0.05mm Busbar (Silver), Finger grids: 186, Blue anti-reflecting coating (silicon oxide nitride)               |                             |                          |
| Back (+): Width of soldering pads (silver): 2.1±0.3mm Finger grids: 186, Blue anti-reflecting coating (silicon oxide nitride) |                             |                          |
| The results may be influenced by electrode, welding method and conditions.  |                             |                          |

### Electrical Performance

| Efficiency | Unit | 23.5   | 23.4   | 23.3  | 23.2   | 23.1   | 23.0   | 22.9   | 22.8   |
|------------|------|--------|--------|-------|--------|--------|--------|--------|--------|
| Voc        | V    | 0.695  | 0.693  | 0.692 | 0.691  | 0.69   | 0.689  | 0.688  | 0.687  |
| Isc        | A    | 18.18  | 18.18  | 18.16 | 18.13  | 18.11  | 18.09  | 18.06  | 18.04  |
| Vmpp       | V    | 0.595  | 0.593  | 0.591 | 0.589  | 0.587  | 0.585  | 0.583  | 0.581  |
| Impp       | A    | 17.586 | 17.406 | 17.39 | 17.374 | 17.357 | 17.341 | 17.322 | 17.305 |
| Pmpp       | W    | 10.37  | 10.32  | 10.28 | 10.24  | 10.19  | 10.14  | 10.09  | 10.05  |
| FF%        | W    | 81.94  | 81.88  | 81.82 | 81.74  | 81.69  | 81.63  | 81.59  | 81.53  |

Standard Test Conditions: 1000W/m<sup>2</sup>, AM1.5,25 °C

### 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 good ventilation, dry, humidity below 60%, and temperature ≤ 40 °C . Cells should be sampling inspected again if the storage time over 45 days.

### Iv Curve

