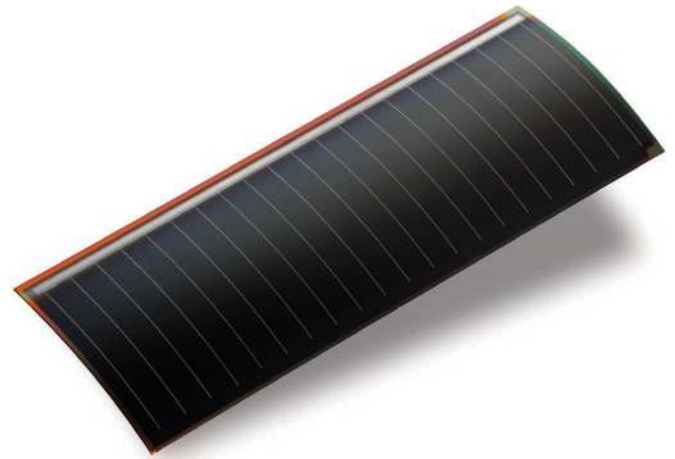


Alta Devices produces the highest performance single junction solar cells available on the market.

- The gallium arsenide based cells are thin, flexible, and lightweight, enabling a broad range of mobile power applications
- World-record cell and module efficiencies
- Low temperature coefficients and high sensitivity to low light generate unsurpassed real world performance



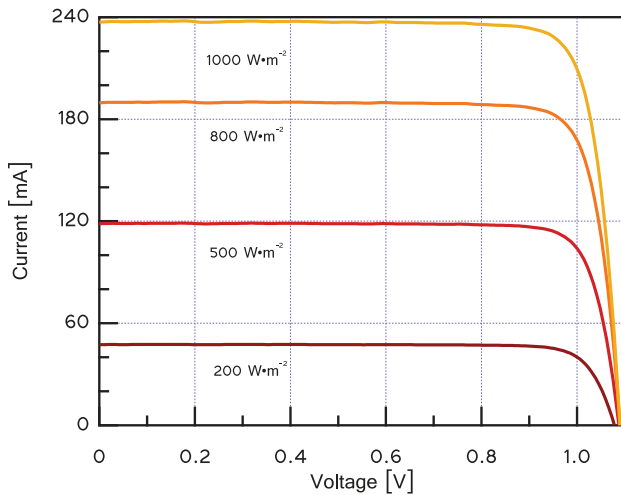
Mechanical Data and Design

| | | |
|-----------|------|---|
| Format | [mm] | 50 x 19.6 ± 0.5 |
| Thickness | [µm] | 110 ± 10 |
| Weight | [mg] | 180 |
| Front | [-] | 1.0 mm bus bar, AR coating |
| Back | [+] | Polymer carrier film, vias for electrical contact |

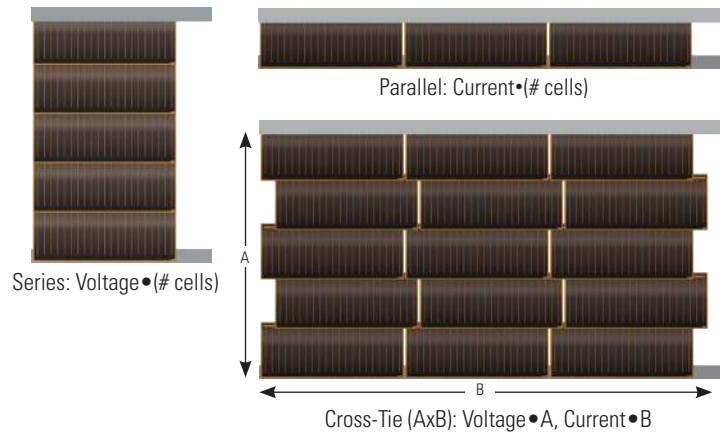
Temperature Coefficients

| | | |
|---------|---------|--------|
| Voltage | [%/ °C] | -0.187 |
| Current | [%/ °C] | +0.084 |
| Power | [%/ °C] | -0.095 |

Electrical Performance



Architecture Options



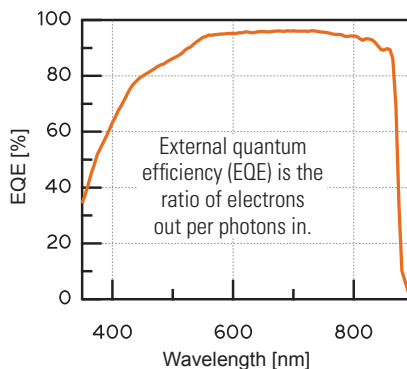
Electrical Specifications

Performance at STC of a 25% efficient cell

| | | |
|----------|------|-------------------|
| Eff. | [%] | 25 (shingle area) |
| P_{mp} | [mW] | 214 |
| V_{mp} | [V] | 0.96 |
| I_{mp} | [mA] | 223 |
| FF | [%] | 84.3 |
| V_{oc} | [V] | 1.09 |
| I_{sc} | [mA] | 233 |

Standard Testing Conditions [STC]: 1000W•m⁻², AM1.5, 25°C

External Quantum Efficiency



Low Light / High Temperature Performance

