



- Lower LCOE (levelized cost of energy), reduced BOS (balance of system) cost, shorter payback time
- Designed for compatibility with existing mainstream system components
- High module power, high string power and low voltage design

CA A_A (STC)

Peak Power Watts- $P_{MAX}(Wp)^*$

Power Selection (W)**

Maximum Power Voltage- V_{MPP} (V)

Maximum Power Current- I_{MPP} (A)

Open Circuit Voltage- V_{oc} (V)

Short Circuit Current- I_{sc} (A)

Module Efficiency η_m (%)

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5. *Measuring tolerance: $\pm 3\%$. **Power selection up to: +3%.

CA A_A (NOCT)

Peak Power Watts- $P_{MAX}(Wp)^*$

Maximum Power Voltage- V_{MPP} (V)

Maximum Power Current- I_{MPP} (A)

Open Circuit Voltage- V_{oc} (V)

Short Circuit Current- I_{sc} (A)

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

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NOCT (Nominal Operating Cell Temperature) 43°C ($\pm 2^\circ\text{C}$)

Temperature Coefficient of P_{MAX} -0.29% /°C

Temperature Coefficient of V_{oc} -0.24% /°C

Temperature Coefficient of I_{sc} 0.04% /°C

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I-V CURVES OF PV MODULE (505W)

P-V CURVES OF PV MODULE (505W)

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Operational Temperature -40~+85°C

Maximum System Voltage 1500V DC (IEC)

Max Series Fuse Rating 30A

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Solar Cells	N-type i-TOPCon Monocrystalline
No. of cells	108 cells
Module Dimensions	1961×1134×30 mm (77.20×44.65×1.18 inches)
Weight	23.5 kg (51.8 lb)
Front Glass	1.6mm (0.06inches), AR Coating Heat Strengthened Glass
Back Glass	1.6mm (0.06 inches), Heat Strengthened Glass
Frame	30mm(1.18 inches) Anodized Aluminium Alloy, Black
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²) Portrait: 350/280 mm(13.78/11.02 inches) Length can be customized
Connector	MC4 EV02 / TS4 Plus / TS4*
Packaging	

*Please refer to regional datasheet for specified connector.