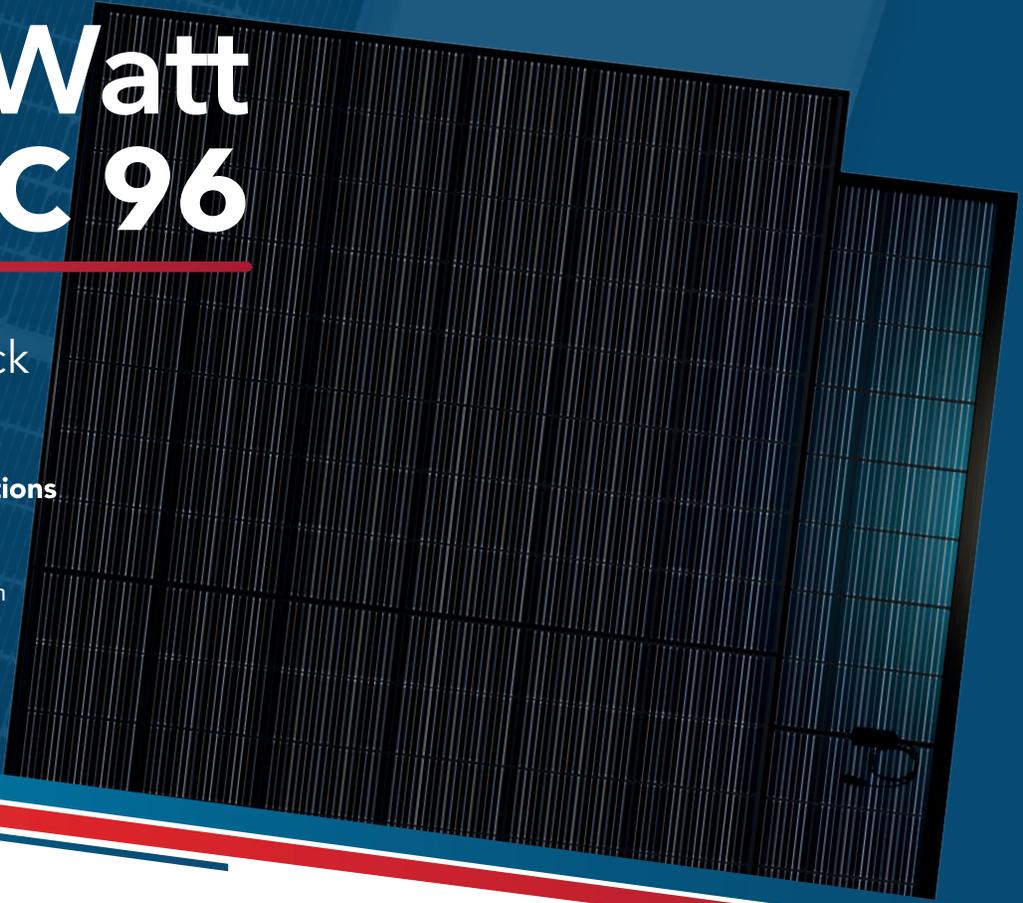


450-470 Watt Module HC 96

Mono-Crystalline N Type
Dual Glass Bifacial Full Black
SE-182*105-450M-96-BD

Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730
ISO 9001:2015:ISO Quality Management System
ISO 14001:2015:ISO Environment Management System
ISO 45001:Occupational Health and Safety



KEY FEATURES



Multi Busbar Solar Cell



High Efficiency



PID Resistance



Low-light Performance

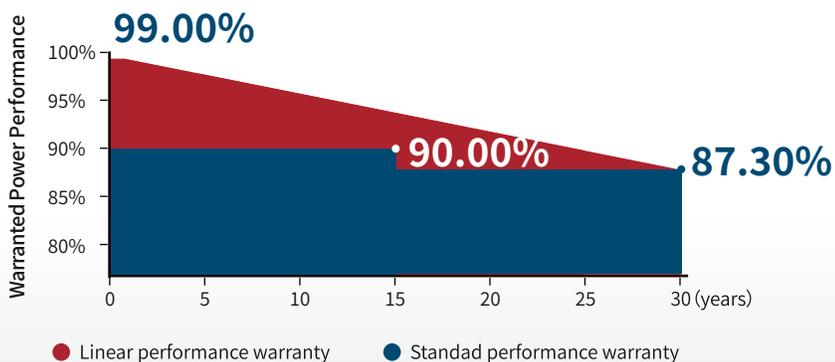


Severe Weather Resilience



Durability Against Extreme Environmental Conditions

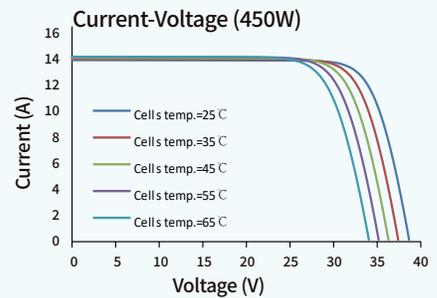
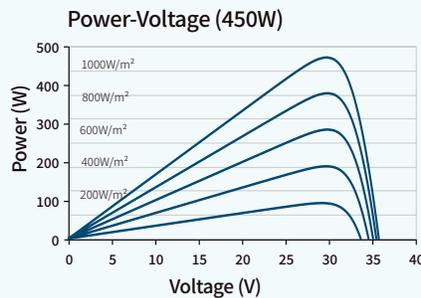
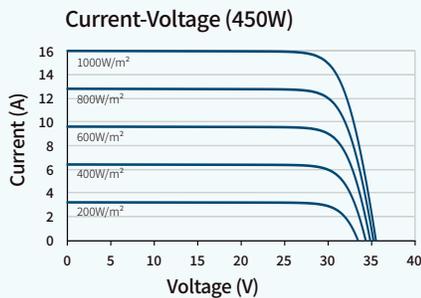
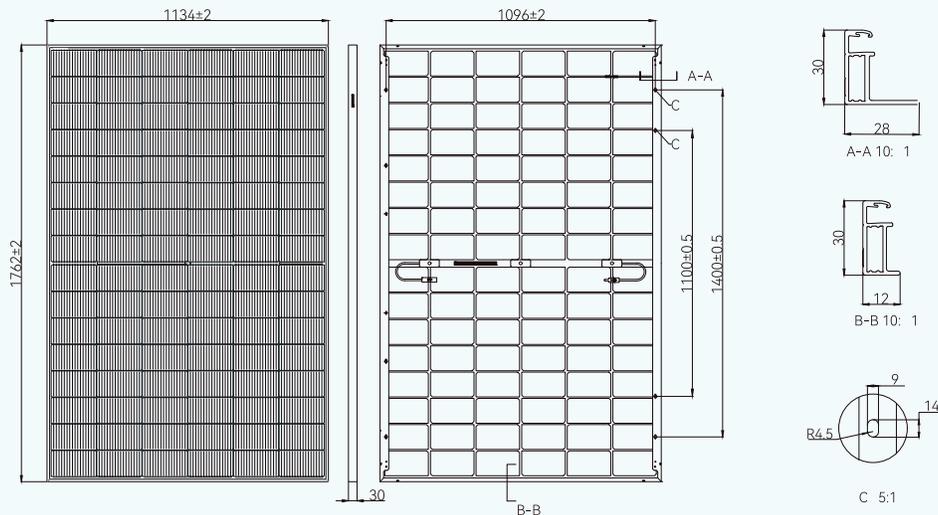
LINEAR PERFORMANCE WARRANTY



PACKAGING CONFIGURATION

(Two pallets = One stack)

36 pcs/pallet, 72pcs/stack, 900pcs/53FT Truck



Mechanical Parameters

| | |
|--------------------|--|
| Cells | N-Type Mono-crystalline - |
| Cell Orientation | 96[6x16] |
| Dimension | 1762 ± 2x1134 ± 2x30mm |
| Weight | 21.0kg |
| Front / Back Glass | 1.6+1.6mm (0.063+0.063 inch) |
| Frame | Aluminum, Silver Anodized |
| Junction Box | IP68 Rated, MC4-EVO2A connector |
| Output Cable | TÜV 1x4.0mm² |
| Cable Length | 1200mm or Customized Length |
| Wind / Snow Load | 2400Pa/5400Pa |
| Fire Rating | UL: Type 1, IEC:Class C |
| Packaging | 36pcs/pallet, 72pcs/stack, 900pcs/53FT Truck |

Temperature Parameters

| | |
|--------------------------------|------------|
| Temperature Coefficient (Pmax) | -0.30%/°C |
| Temperature Coefficient (Voc) | -0.25%/°C |
| Temperature Coefficient (Isc) | +0.046%/°C |
| NMOT | 41 ± 2°C |

Maximum Ratings

| | |
|----------------------------|-------------|
| Operational Temperature | -40°C~+85°C |
| Maximum System Voltage | 1500V DC |
| Maximum Series Fuse Rating | 30 A |
| Power Output Tolerance | 0~+3% |

Electrical Characteristics(STC)

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass1.5, Measuring Tolerance: ±3%

| | | | | | |
|---------------------------------|-------|-------|-------|-------|-------|
| Maximum Power:Pmax[W] | 450 | 455 | 460 | 465 | 470 |
| Open Circuit Voltage:Voc[V] | 35.03 | 35.21 | 35.39 | 35.57 | 35.75 |
| Short Circuit Current:Isc[A] | 16.05 | 16.10 | 16.15 | 16.20 | 16.25 |
| Voltage at Maximum Power:Vmp[V] | 30.08 | 30.26 | 30.44 | 30.62 | 30.80 |
| Current at Maximum Power:Imp[A] | 14.97 | 15.04 | 15.11 | 15.19 | 15.26 |
| Module Efficiency: η [%] | 22.52 | 22.77 | 23.02 | 23.27 | 23.52 |

Electrical Characteristics(NMOT)

NMOT: Irradiance 800W/m², Ambient Temperature 20°C, Air Mass1.5, Wind Speed 1m/s

| | | | | | |
|---------------------------------|-------|-------|-------|-------|-------|
| Maximum Power:Pmax[W] | 338 | 342 | 346 | 349 | 353 |
| Open Circuit Voltage :Voc[V] | 33.28 | 33.45 | 33.62 | 33.79 | 33.96 |
| Short Circuit Current :Isc[A] | 12.96 | 12.99 | 13.03 | 13.07 | 13.11 |
| Voltage at Maximum Power:Vmp[V] | 27.96 | 28.14 | 28.31 | 28.48 | 28.64 |
| Current at Maximum Power:Imp[A] | 12.09 | 12.15 | 12.22 | 12.26 | 12.32 |

Electrical Characteristics(Rear Power Gain)

| | | | | | | |
|-----|--------------------------|-------|-------|-------|-------|-------|
| 5% | Maximum Power:Pmax[W] | 473 | 478 | 483 | 488 | 494 |
| | Module Efficiency: η [%] | 23.65 | 23.91 | 24.17 | 24.44 | 24.70 |
| 15% | Maximum Power:Pmax[W] | 518 | 523 | 529 | 535 | 541 |
| | Module Efficiency: η [%] | 25.90 | 26.19 | 26.48 | 26.76 | 27.05 |
| 25% | Maximum Power:Pmax[W] | 563 | 569 | 575 | 581 | 588 |
| | Module Efficiency: η [%] | 28.15 | 28.46 | 28.78 | 29.09 | 29.40 |