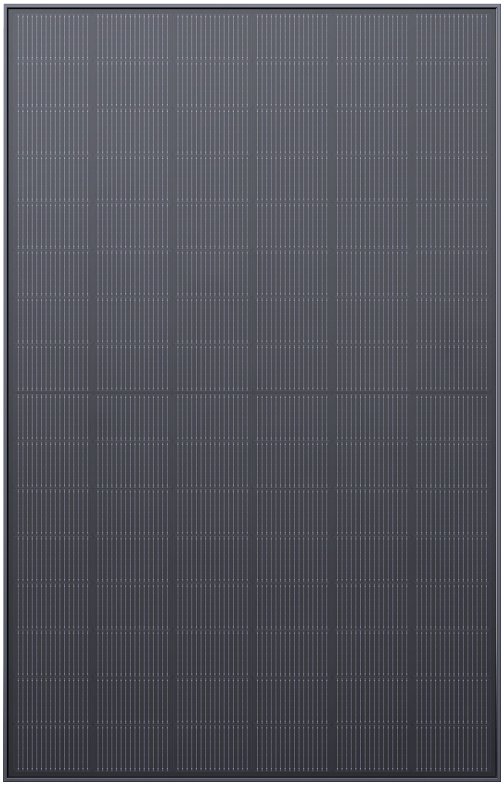
CS450W

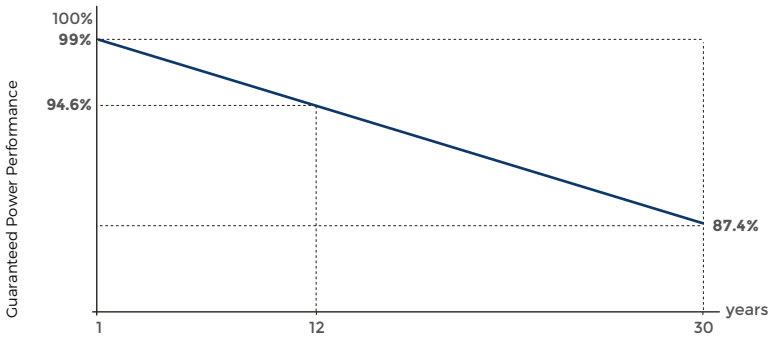
N-Type Bifacial
DoubleGlass PV Module



IEC 61215,IEC 61730
ISO 9001: 2023 Quality management systems
ISO 14001: 2023 Environmental management systems
ISO 45001: 2023 0ccupational health and safety management systems

- **N-type**
  Lower LID degradation and better low-light performance
- **Anti-PID**
  The decay rate is minimized
- **Double-sided power generation**
  Power generation gain on both sides increases with lightexposure on the back
- **Multi-mainbar technology**
  Effectively enhances product power output and reliability

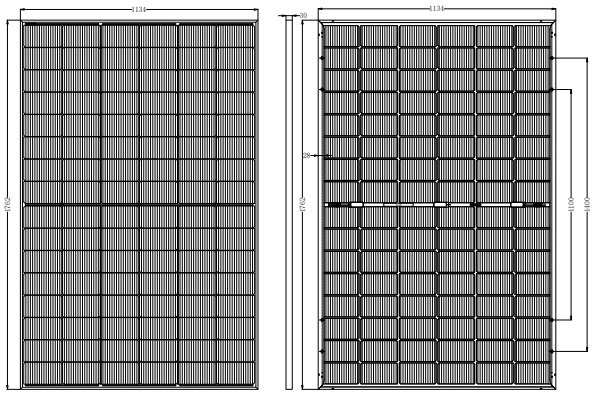
LINEAR PERFORMANCE WARRANTY



25 Year Product Warranty

30 Year Linear Power Warranty

Engineering Drawings



Front Side Back

For detailed sizes and tolerance specification, please consult detailed module drawing

Length: ±2mm
Width: ±2mm
Height: ±1mm

Mechanical Characteristics

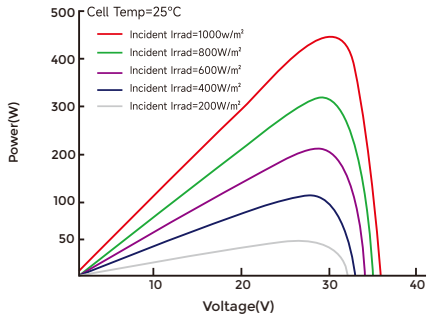
Cell Type	N-type Mono-crystalline silicon,182*105mm
No. of cells	96 pcs(6*8)*2
Dimensions	1762*1134*30 mm
Weight	23.97kg
Front Glass	2.0 mm AR Coating Heat Strengthened Glass
Back Glass	2.0 mm Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Cable Length	300mm
Fire Performance	Class C

Packaging Configuration

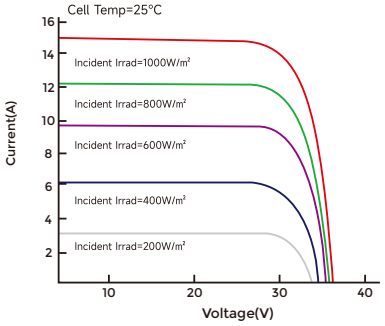
40'HQ
36pcs/pallet , 26pallets/cabinet, 936pcs/ cabinet

Eletrical Performance & Temperature Dependence

Power-Voltage Curve



Current-Voltage Curve



SPECIFICATIONS

Module Type	CS450-M2HD2608
	STC
Maximum Power (Pmax)	450W
Maximum Power Voltage (Vmp)	29.73V
Maximum Power Current (Imp)	15.14A
Open-circuit Voltage (Voc)	35.84V
Short-circuit Current (Isc)	15.98A
Module Efficiency STC (%)	22.52%
Operating Temperature(℃)	-40~+85
Maximum system voltage	1500V DC
Maximum series fuse rating	30A
Power tolerance	0~±5W
Temperature coefficients of Pmax	-0.290%/℃
Temperature coefficients of Voc	-0.250%/℃
Temperature coefficients of Isc	+0.045%/℃
Nominal operating cell temperature (NOCT)	42°C±2℃
Protection Class	II
First-Year Degradation	1%
Bifaciality Factor	80% ± 5%

*STC: Irradiance 1000W/m² Cell Temperature 25℃ AM=1.5

Specifications included in this datasheet are subject to change without notice.