

Highest quality with our cells.
10MBB Half Cut P-Type Technology

HC MONO 400 Watt Total Black



Key features

- ✔ Passed IEC 5400 Pa mechanical loading test.
- ✔ The modules can withstand high wind-pressure, snow loads and extreme temperatures.
- ✔ Our high performing modules have an industry low tolerance of 0±5%.
- ✔ Our solar cells offer high conversion efficiency to ensure the highest quality.
- ✔ Highest quality with our cells.

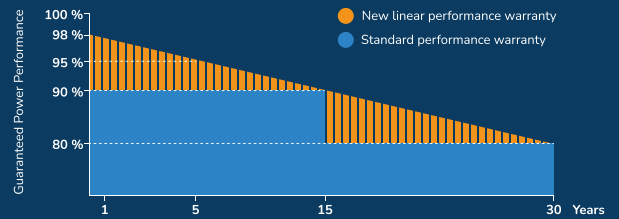


Quality and safety

- ✔ Industry leading power output warranty
15 years / 90%
30 years / 80%
- ✔ 25-year warranty on materials & workmanship
- ✔ Fire test: Class 1



Premium performance warranty



Applications



On-grid residential roof-tops



On-grid commercial-industrial roof-tops

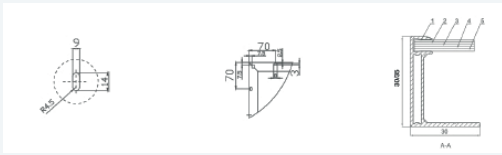
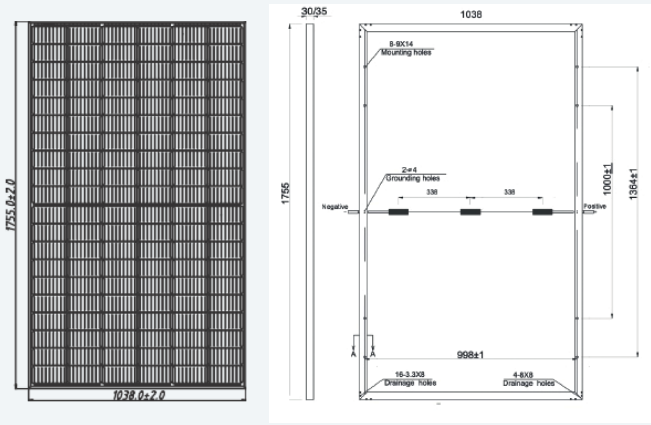


Solar power plants



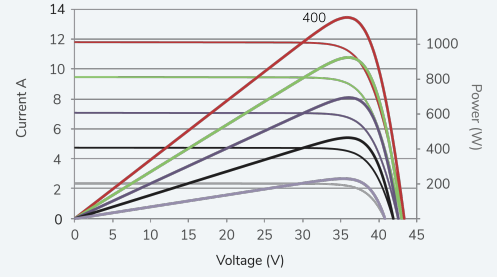
Off-grid systems

Engineering drawings

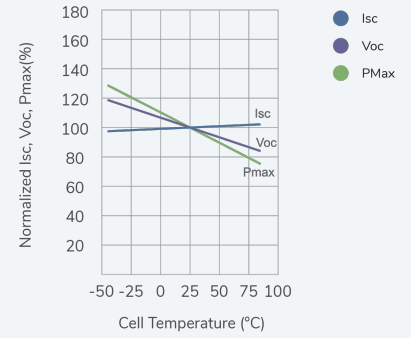


Electrical performance & temperature dependence

Current-Voltage & Power-Voltage Curves (400W)



Temperature Dependence of ISC, Voc, Pmax



Electrical characteristics

Module Type	SNG400M-120
TESTING CONDITION⁽¹⁾	STC⁽²⁾/NMOT⁽³⁾
Maximum Power (Pmax)	400Wp/288Wp
Maximum Power Voltage (Vmp)	34.7V/32.48V
Maximum Power Current (Imp)	11.53A/9.71A
Open-circuit Voltage (Voc)	42.20V/39.60V
Short-circuit Current (Isc)	12.13A/10.15A
Cell Efficiency	21.62%
Module Efficiency (%)	20.6%
Operating Temperature OC	-400C± ~ +850C
Maximum system voltage	1500V
Maximum series fuse rating	20A
Power tolerance	0±5%
Temperature coefficients of Pmax	-0.43%PC
Temperature coefficients of Voc	-0.30%PC
Temperature coefficients of Isc	0.04%/T
Nominal operating cell temperature (NOCT)	45±2

Mechanical data

Cell type	Half Cut P-Type Technology (166mmx83mm)
No. of cells	120 (6x20)
Dimensions	1755x1038x30mm 1755x1038x35mm
Weight	30mm : 19.5kg 35mm : 20kg
Front Glass	3.2 mm anti-reflective
Frame	Anodized Aluminium Alloy Total black
Junction Box	IP68 Rated
Output Cables	TUV: 4.0mm ² UL 12AWG Length: 1100mm or customized length
Connectors	Copper, Silver Plated, MC 4

Packaging configuration

Dimensions	30mm	35mm
No. of pieces per pallet	36	31
Total number of pallets	26	28
Module quantity per 40'container (pcs)	936	868

(1) Measurement Tolerances: Pmax (+/- 5%), Isc & Voc (+/- 5%) - Power Classification 0/+5%

(2) STC (Standard Testing Condition): Irradiance 1000W/m², Cell Temperature 25°C, AM 1.5

(3) NMOT (Nominal Operating Module Temperature): Irradiance 800/m², NMOT, Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

STC/NMOT



Irradiance 1000W/m² / 800W/m²



Module Temperature 25°C



AM = 1.5