

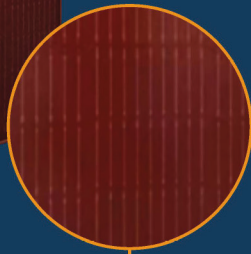


# HC MONO 400 Watt Red Frame



## 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  $0\pm 5\%$ .
- ✔ Our solar cells offer high conversion efficiency to ensure the highest quality.
- ✔ Highest quality with our cells.



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

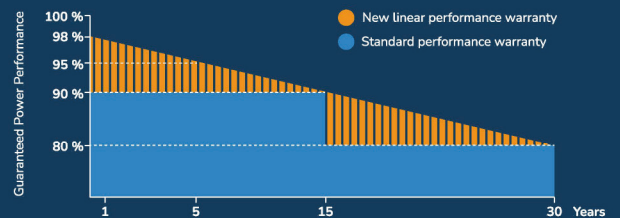


## Quality and safety

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



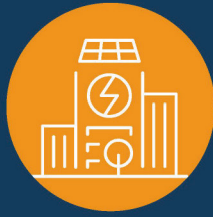
## Premium performance warranty



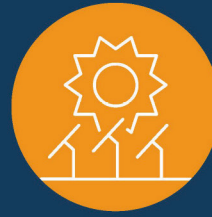
## Applications



On-grid residential roof-tops



On-grid commercial-industrial roof-tops

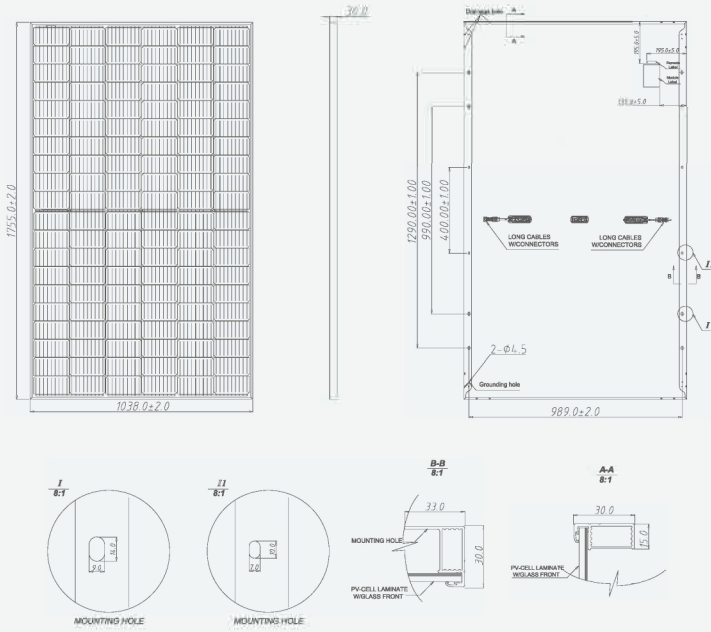


Solar power plants



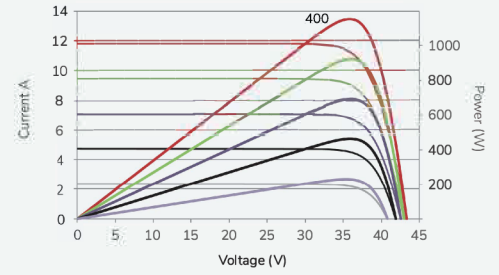
Off-grid systems

## Engineering drawings

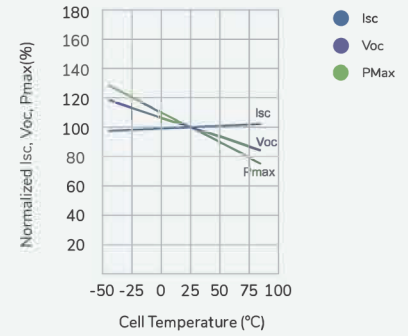


## Electrical performance & temperature dependence

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



### Temperature Dependence of Isc, Voc, Pmax



## Electrical characteristics

Module Type	SNG400M-120
<b>TESTING CONDITION<sup>(1)</sup></b>	<b>STC<sup>(2)</sup>/NMOT<sup>(3)</sup></b>
Maximum Power (Pmax)	400Wp/288Wp
Maximum Power Voltage (Vmp)	34.7V/32.48W
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 0C	-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
Weight	19.5kg
Front Glass	3.2 mm anti-reflective
Frame	Anodized Aluminium Alloy Red Frame
Junction Box	IP68 Rated
Output Cables	TUV: 4.0mm <sup>2</sup> UL: 12AWG Length: 1100mm or customized length
Connectors	Copper, Silver Plated, MC 4

## Packaging configuration

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

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

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

(3) NMOT (Nominal Operating Module Temperature): Irradiance 800/m<sup>2</sup>, NMOT: Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

STC/NMOT



Irradiance 1000W/m<sup>2</sup> / 800W/m<sup>2</sup>



Module Temperature 25°C



AM = 1.5