

# нс момо 420 Watt Red Frame



# Key features

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

Premium performance warranty

15

Highest quality with our cells.

Highest quality with our cells. 16 MBB Half Cut N-Type Technology

100 %-

98 %

95 %

90 9

85%

1 Power Perfor

Guaran



### Quality and safety

Industry leading power output warranty

15 years / 90% 30 years/85.2%

- 🥺 25-year warranty on materials & workmanship
- 🏑 🛛 Fire test: Class 1



# Applications



On-grid residential roof-tops



On-grid commercialindustrial roof-tops





🔴 New linear performance warranty

Standard performance warranty

30 Years

Solar power plants

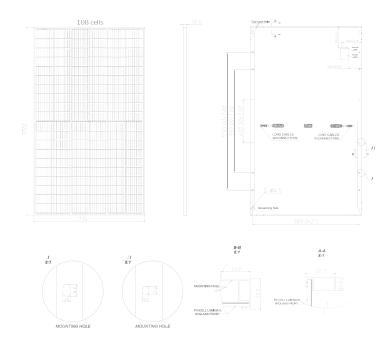
Off-grid systems



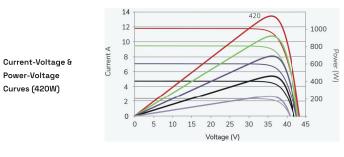


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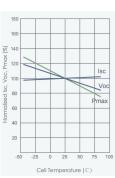
### **Engineering drawings**



#### Electrical performance & temperature dependence



Temperature Dependence of ISC, Voc, Pmax



#### **Electrical characteristics**

Module Type	SNG420M-108	
TESTING CONDITION <sup>(1)</sup>	STC <sup>(2)</sup> /NMOT <sup>(3)</sup>	
Maximum Power (Pmax)	420Wp/318Wp	
Maximum Power Voltage (Vmp)	32.48V/30.49V	
Maximum Power Current (Imp)	12.94A/10.44A	
Open-circuit Voltage (Vac)	39.31V/37.55V	
Short-circuit Current (Isc)	13.66A/11.03A	
Cell Efficiency	23.7%	
Module Efficiency (%)	21.5%	
Operating Temperature 0C	-40°C ~ +85°C	
Maximum system voltage	1500V	
Maximum series fuse rating	25A	
Power tolerance	±5%	
Temperature coefficients of Prnax	-0.29%/°C	
Temperature coefficients of Vac	-0.25%/℃	
Temperature coefficients of Isc	0.045%/℃	
Nominal operating cell temperature (NOCT)	45±2°	

#### **Mechanical data**

Cell type	Half Cut N-Type Technology (182x91mm)
No. of cells	108 (2×54)
Dimensions	1722x1134x30mm
Weight	30mm : 19.5kg 35mm: 20kg
Front Glass	3.2 mm anti-reflective
Frame	Anodized Aluminium Alloy Red Frame
Junction Box	IP68 Rated
Output Cables	TUV: 4.0mm² UL 12AWG Length: 1100mm or customized length
Connectors	Copper, Silver Plated, MC 4

### Packaging configuration

Dimensions	30mm	35mm
No. of pieces per pallete	36	31
Total number of palletes	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): Irrandiance 1000w/m², Cell Temperature 25°C, AM 1.5 (3) NMOT (Nominal Operating Module Temperature): Irrandiance 800/m², NMOT. Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

STC/NMOT

-0- Irradiance 1000W/m² / 800W/m²

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Module Temperature 25°C





