



HALF CUT

585 - 605 Watt

Silver 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±5%.
- ✔ Our solar cells offer high conversion efficiency to ensure the highest quality.
- ✔ Highest quality with our cells.

Highest quality with our cells.
18MBB Heterojunction Technology

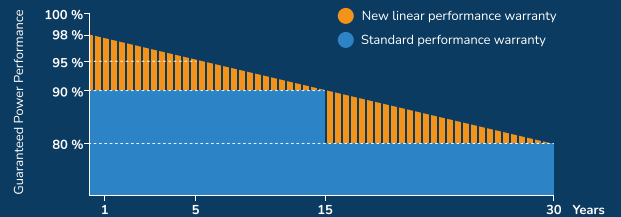


Quality and safety

- ✔ 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

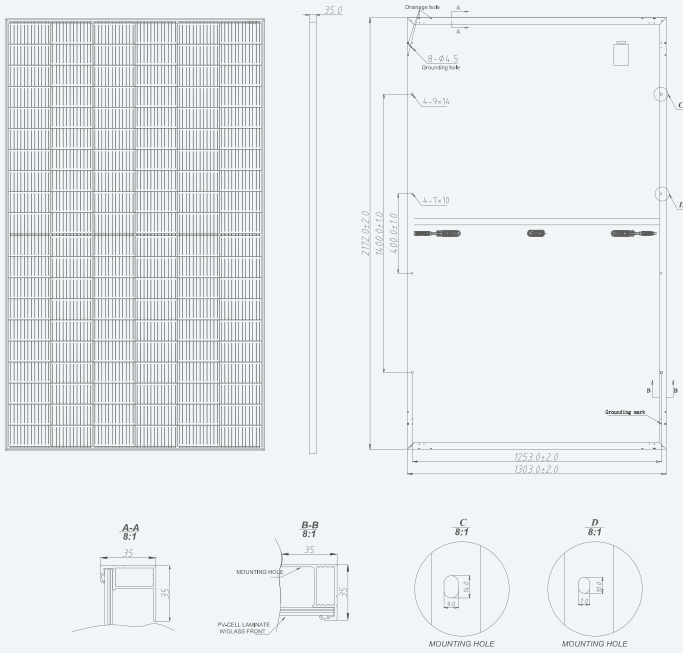


Solar power plants



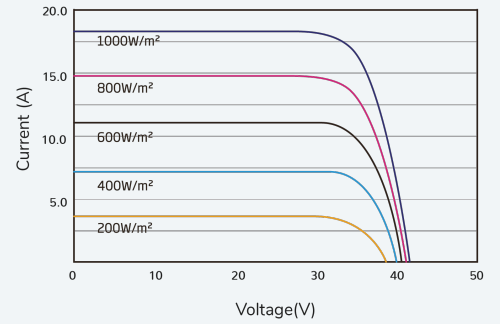
Off-grid systems

Engineering drawings

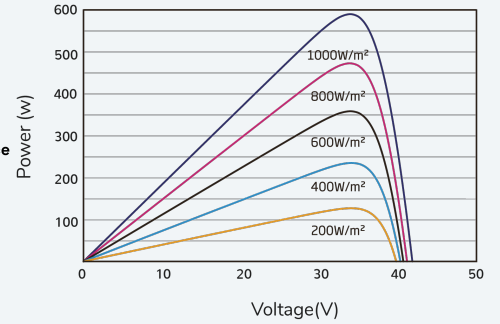


Electrical performance & temperature dependence

Current-Voltage & Power-Voltage Curves (595W)



Temperature Dependence of ISC, Voc, Pmax



Electrical characteristics

Module Type	SNG585M-120	SNG590M-120	SNG595M-120	SNG600M-120	SNG605M-120
TESTING CONDITION⁽¹⁾	STC⁽²⁾/NMOT⁽³⁾	STC⁽²⁾/NMOT⁽³⁾	STC⁽²⁾/NMOT⁽³⁾	STC⁽²⁾/NMOT⁽³⁾	STC⁽²⁾/NMOT⁽³⁾
Maximum Power at STC (Pmax)	585Wp/444Wp	590Wp/448Wp	595Wp/452Wp	600Wp/456Wp	605Wp/460Wp
Maximum Power Voltage (Vmp)	33.8V/31.65V	34.00V/31.80V	34.20V/31.94V	34.40V/32.09V	34.60V/32.24V
Maximum Power Current (Imp)	17.131A/14.03A	17.35A/14.09A	17.40A/14.15A	17.45A/14.21A	17.49A/14.27A
Open-circuit Voltage (Voc)	40.90V/38.52V	41.10V/38.72V	41.30V/38.92V	41.50V/39.11V	41.70V/39.31V
Short-circuit Current (Isc)	18.37A/14.90A	18.42A/14.94A	18.47A/14.98A	18.52A/15.94A	18.57A/15.98A
Module Efficiency (%)	20.67%	20.85%	21.02%	21.20%	21.38%
Operating Temperature OC	-40°C ± ~ +85°C				
Maximum system voltage	1500V DC				
Maximum series fuse rating	25A				
Power tolerance	0±5%				
Temperature coefficients of Pmax	-0.35%/°C				
Temperature coefficients of Voc	-0.28%/°C				
Temperature coefficients of Isc	0.048%/°C				
Nominal operating cell temperature (NOCT)	45±2°C				

Mechanical data

Cell type	Heterojunction Technology (210x105mm)
No. of cells	120
Dimensions	2172x1303x35mm
Weight	27.8kg
Front Glass	3.2 mm anti-reflective
Frame	Anodized Aluminium Alloy Silver Frame
Junction Box	IP68 Rated
Output Cables	TUV: 1x4.0mm ² /UL 12AWG Length: 400/1400mm or customized length
Connectors	Copper, Silver Plated, MC 4

Packaging configuration

Dimensions	35mm
No. of pieces per pallet	31
Total number of pallets	17
Module quantity per 40' container	527

(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 800W/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