

Product Information Sheet SNG 585-605 Watt HJT Technology

HC MONO 585-605 Watt

Highest quality with our cells
18 MBB HJT Technology

- | | |
|---|--|
| ✓ 30 years
Product Material & Workmanship | ✓ 30 years
Linear Performance Warranty |
| ✓ 1 %
1st-year Degradation | ✓ 0.4 %
Annual Degradation |

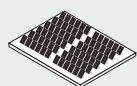
Quality and Safety

 **Industry-leading power output warranty**
25 years / 89.4 %
30 years / 87.4 %

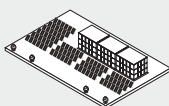
 **30-year warranty on materials & workmanship**

 **Fire Test: Class 1**

- ✓ **Anti-PID Guarantee**
Minimizes the risk of degradation caused by PID phenomena by optimizing cell production technology and material control.
- ✓ **Multi-busbar Technology**
Higher performance, higher reliability, and greater (electrical) resilience.



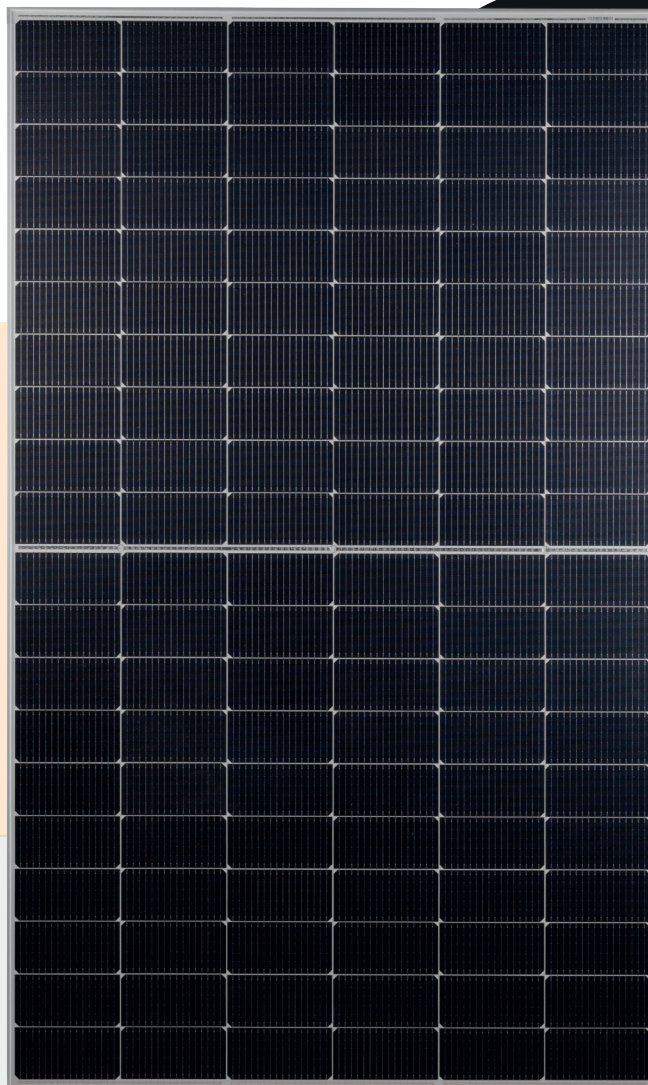
Solar power plants



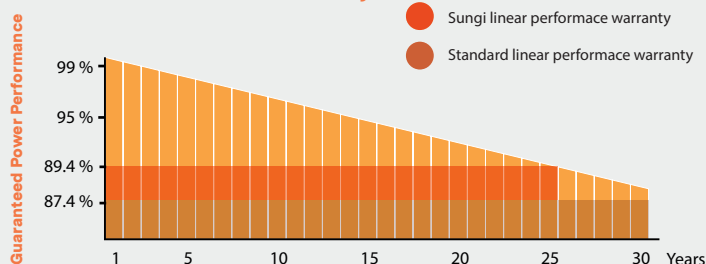
Off-grid systems

Complete System and Product Certifications

IEC 61215 (2021), IEC 61730 (2023), IEC 61701, IEC 62716
ISO 9001:2015: Quality Management System
ISO 14001:2015: Environmental Management System
ISO 45001:2018: Occupational Health and Safety Management System
IEC 62941:2019: Quality System for PV Module Manufacturing



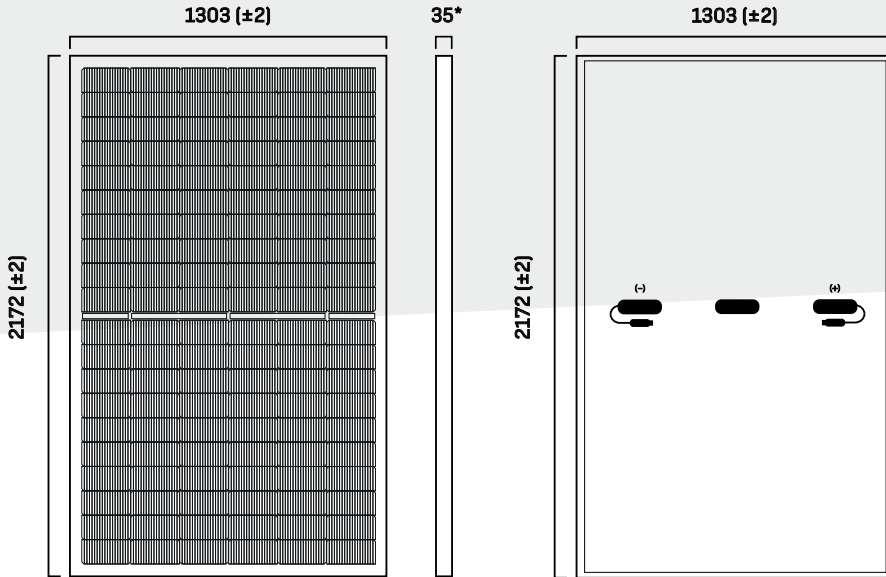
Premium Performance Warranty



21.37 %
Max Module Efficiency

30 Y Warranty
on materials & workmanship

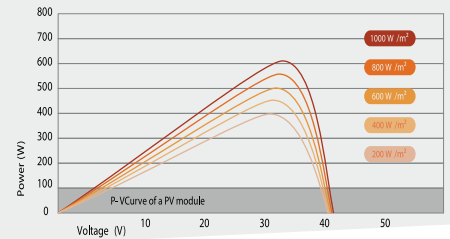
ENGINEERING DRAWINGS (mm)



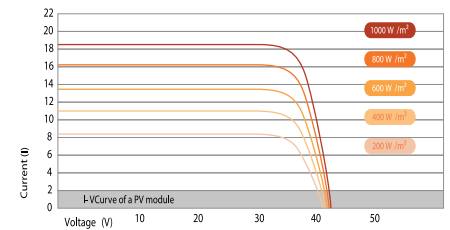
ELECTRICAL PERFORMANCE & TEMPERATURE

DEPENDENCE | SNG - 605

Power-Voltage Curves



Current-Voltage Curves



MODULE TYPE	SNG-585 W	SNG-590 W	SNG-595 W	SNG-600 W	SNG-605 W
Testing Conditions	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)	585 Wp	590 Wp	595 Wp	600 Wp	605 Wp
Maximum Power Voltage (Vmp)	33.80 V / 31.65 V	34.00 V / 31.80 V	34.20 V / 31.94 V	34.40 V / 32.09 V	34.60 V / 32.24 V
Maximum Power Current (Imp)	17.31 A / 14.03 A	17.35 A / 14.09 A	17.40 A / 14.15 A	17.45 A / 14.21 A	17.49 A / 14.27 A
Open-Circuit Voltage (Voc)	40.90 V / 38.52 V	41.10 V / 38.72 V	41.30 V / 38.92 V	41.50 V / 39.11 V	41.70 V / 39.31 V
Short-Circuit Current (Isc)	18.37 A / 14.90 A	18.42 A / 14.94 A	18.47 A / 14.98 A	18.52 A / 15.02 A	18.57 A / 15.06 A
Module Efficiency (%)	20.67 %	20.84 %	21.02 %	21.20 %	21.37 %

ALL MODULES DATA

Operating Temperature (DC)	- 40 °C to + 85 °C
Maximum System Voltage	1500 VDC
Maximum Series Fuse Rating	30 A
Power Output Tolerance ⁽¹⁾	± 3 %
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

TECHNICAL SPECIFICATION

Cell type	HJT Technology (210x105 mm)
Number of cells	120 (2×60)
Dimensions	2172x1303x35* mm
Weight	30.5 kg
Front Glass	3.2 mm anti-reflection
Frame	Anodized Aluminum Alloy Silver Frame*
Junction Box	IP68 Rated
Output Cables	TUV 1x4.0 mm² / UL 12 AWG*
Output Cables Length	1400 mm*
Connectors	MC 4

PACKAGING CONFIGURATION



40' Container

- 31 pcs per pallet
- 18 pallets
- 558 total pcs

Testing Conditions
STC⁽²⁾/NMOT⁽³⁾

Irradiance
1000 W/m²
800 W/m²

Module Temperature
25 °C
20 °C

AM
1.5
Wind Speed 1m/s

Fire Rating
Class 1

⁽¹⁾ Measurement Tolerances : Pmax (± 3 %), Isc & Voc (± 3 %)

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

⁽³⁾ NMOT (Nominal Operating Module Temperature) : Irradiance : 800 W/m², NMOT Ambient Temperature: 20/25 °C, AM : 1.5, Wind Speed : 1 m/s

*or customized

Not applicable for installations in transition 5.0/ feed in tariff for italian market

Specifications included in this datasheet are subject to change without notice. SUNGI SOLAR reserves all the rights to final integrations.