

Product Information Sheet SNG 670-690 Watt HJT Technology

BIFACIAL 670-690 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 |

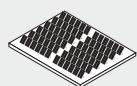
Quality and Safety

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

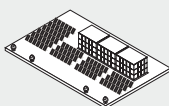
 **30-year warranty on materials & workmanship**

 **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



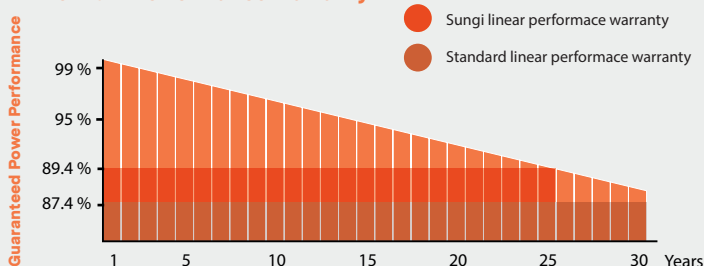
Off-grid systems

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



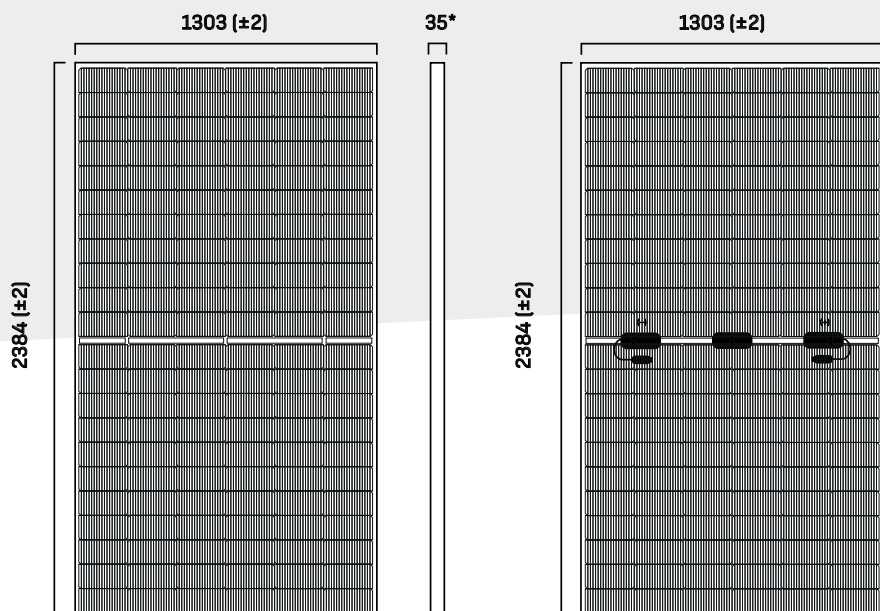
Premium Performance Warranty



22.21%
Max Module Efficiency

30 Y Warranty
on materials & workmanship

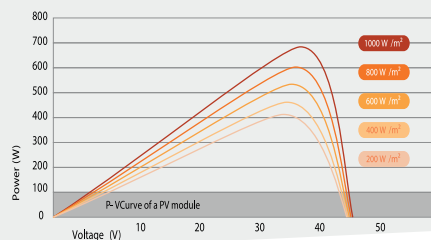
ENGINEERING DRAWINGS (mm)



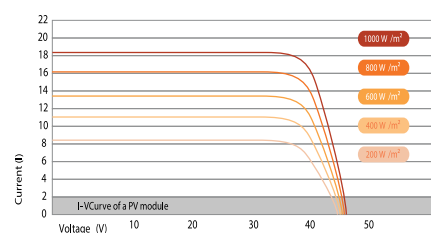
ELECTRICAL PERFORMANCE & TEMPERATURE

DEPENDENCE | SNG - 690

Power-Voltage Curves



Current-Voltage Curves



MODULE TYPE	SNG-670 W	SNG-675 W	SNG-680 W	SNG-685 W	SNG-690 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)	670 Wp	675 Wp	680 Wp	685 Wp	690 Wp
Maximum Power Voltage (Vmp)	38.20 V / 34.79 V	38.40 V / 34.97 V	38.60 V / 35.15 V	38.80 V / 35.32 V	39.00 V / 35.50 V
Maximum Power Current (Imp)	17.55 A / 14.66 A	17.59 A / 14.70 A	17.63 A / 14.74 A	17.67 A / 14.78 A	17.71 A / 14.82 A
Open-Circuit Voltage (Voc)	46.10 V / 41.92 V	46.30 V / 42.10 V	46.50 V / 42.28 V	46.70 V / 42.46 V	46.90 V / 42.64 V
Short-Circuit Current (Isc)	18.62 A / 15.66 A	18.66 A / 15.70 A	18.71 A / 15.74 A	18.80 A / 15.78 A	18.85 A / 15.82 A
Module Efficiency (%)	21.56 %	21.72 %	21.89 %	22.05 %	22.21 %

BIFACIAL OUTPUT- REAR SIDE	SNG-670 W	SNG-675 W	SNG-680 W	SNG-685 W	SNG-690 W
Power gain 5 %	703 Wp	708 Wp	714 Wp	719 Wp	724 Wp
Power gain 10 %	770 Wp	776 Wp	782 Wp	787 Wp	793 Wp
Power gain 15 %	837 Wp	843 Wp	850 Wp	856 Wp	862 Wp

ALL MODULES DATA

Operating Temperature (DC)	- 40 °C to + 85 °C
Maximum System Voltage	1500 VDC
Maximum Series Fuse Rating	35 A
Power Output Tolerance ⁽¹⁾	± 3 %
Temperature Coefficients of Pmax	- 0.43 % / °C
Temperature Coefficients of Voc	- 0.30 % / °C
Temperature Coefficients of Isc	+0.040 % / °C
Nominal Operating Cell Temperature (NOCT)	45 ± 2 °C

TECHNICAL SPECIFICATION

Cell type	HJT Technology (210x105 mm)
Number of cells	132 (2x66)
Dimensions	2384x1303x35* mm
Weight	38.7 kg
Front Glass	2.0 mm AR tempered glass
Back Glass	2.0 mm tempered glass
Frame	Anodized Aluminum Alloy Silver Frame*
Junction Box	IP68 Rated
Output Cables	TUV 1x4.0 mm ² / UL 12 AWG*
Output Cables Length	1400 mm*
Connectors	MC 4

PACKAGING CONFIGURATION



40' Container

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

⁽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.