

Product Information Sheet SNG 585-600 Watt TOPCon Technology

BIFACIAL 580-600 Watt

Highest quality with our cells
16 MBB TOPCon Technology

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

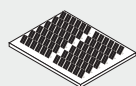
Quality and Safety

- ① **Industry-leading power output warranty**
25 years / 89.4 %
30 years / 87.4 %

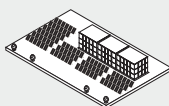
- ✓ **30-year warranty on materials & workmanship**

- ✓ **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



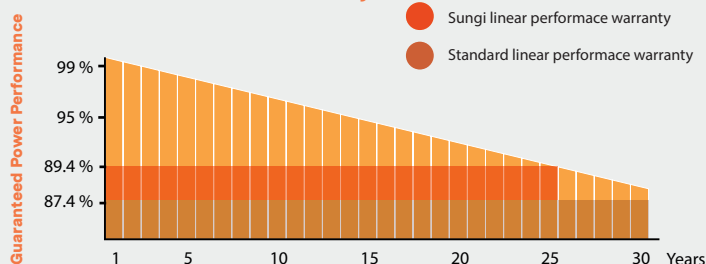
Off-grid systems

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



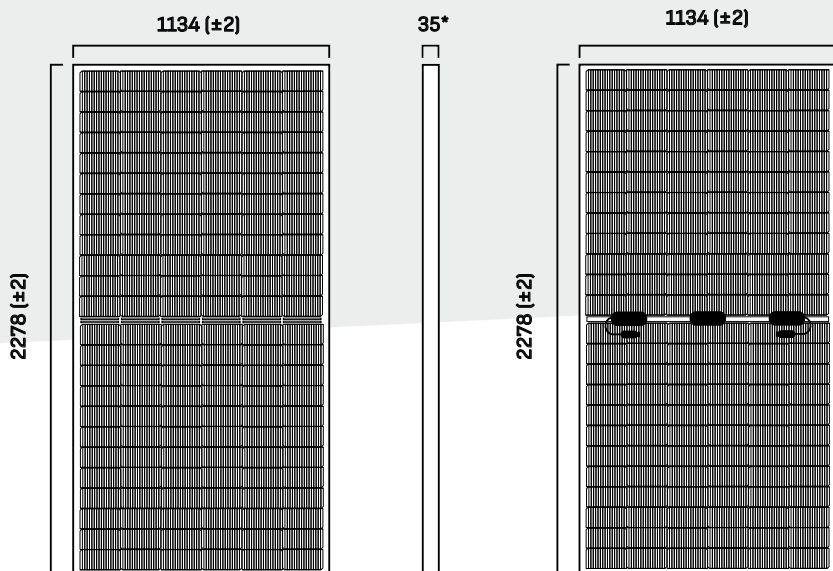
23.22 %

Max Module Efficiency

30 Y Warranty

on materials & workmanship

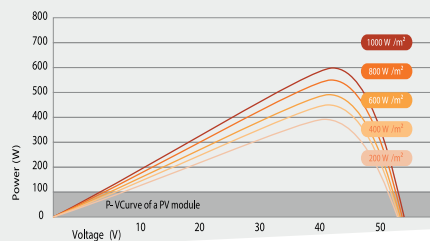
ENGINEERING DRAWINGS (mm)



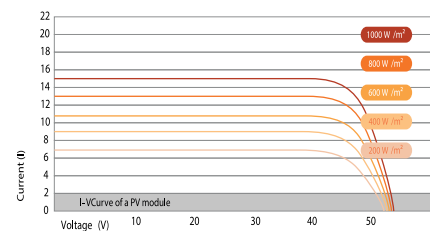
ELECTRICAL PERFORMANCE & TEMPERATURE

DEPENDENCE | SNG - 600

Power-Voltage Curves



Current-Voltage Curves



MODULE TYPE	SNG-580 W	SNG-585 W	SNG-590 W	SNG-595 W	SNG-600 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)	580 Wp	585 Wp	590 Wp	595 Wp	600 Wp
Maximum Power Voltage (Vmp)	43.22 V / 40.57 V	43.41 V / 40.75 V	43.60 V / 40.92 V	43.79 V / 41.10 V	43.98 V / 41.28 V
Maximum Power Current (Imp)	13.42 A / 10.83 A	13.48 A / 10.88 A	13.54 A / 10.93 A	13.59 A / 10.97 A	13.65 A / 11.02 A
Open-Circuit Voltage (Voc)	52.30 V / 49.96 V	52.54 V / 50.19 V	52.77 V / 50.41 V	53.00 V / 50.63 V	53.23 V / 50.85 V
Short-Circuit Current (Isc)	14.18 A / 11.45 A	14.24 A / 11.50 A	14.30 A / 11.55 A	14.36 A / 11.59 A	14.42 A / 11.64 A
Module Efficiency (%)	22.45 %	22.64 %	22.83 %	23.03 %	23.22 %

BIFACIAL OUTPUT- REAR SIDE	SNG-580 W	SNG-585 W	SNG-590 W	SNG-595 W	SNG-600 W
Power gain 5 %	609 Wp	614 Wp	619 Wp	624 Wp	630 Wp
Power gain 15 %	667 Wp	672 Wp	678 Wp	684 Wp	690 Wp
Power gain 25 %	725 Wp	731 Wp	737 Wp	743 Wp	750 Wp

ALL MODULES DATA

Operating Temperature (DC)	- 40 °C to + 85 °C
Maximum System Voltage	1500 VDC
Maximum Series Fuse Rating	25 A
Power Output Tolerance ⁽¹⁾	± 3 %
Temperature Coefficients of Pmax	- 0.29 % / °C
Temperature Coefficients of Voc	- 0.25 % / °C
Temperature Coefficients of Isc	+0.045 % / °C
Nominal Operating Cell Temperature (NOCT)	45 ± 2 °C

TECHNICAL SPECIFICATION

Cell type	TOPCon Technology (182x91 mm)
Number of cells	144 (2x72)
Dimensions	2278x1134x35* mm
Weight	38 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

Testing Conditions
STC²/NMOT³

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.

40' Container

- 31 pcs per pallet
- 20 pallets
- 620 total pcs



20' Container

- 31 pcs per pallet
- 10 pallets
- 310 total pcs

