SUNGi SOLAR

SNG ELITE

Product Information Sheet SNG 535-555 Watt TOPCon Technology

BIFACIAL

535-555 Watt

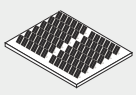
- **30 years** Product Material & Workmanship
- **30 years** Linear Performance Warranty
- **1 %** 1st-year Degradation
- **0.4 %** Annual Degradation

Highest quality with our cells
18 MBB TOPCon Technology

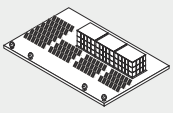
Quality and Safety

- Industry-leading power output warranty
  25 years / 89.4 %
  30 years / 87.4 %
- 30-year warranty on materials & workmanship
- Fire Test : According to EN13501-1 and 13501-5

- **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.

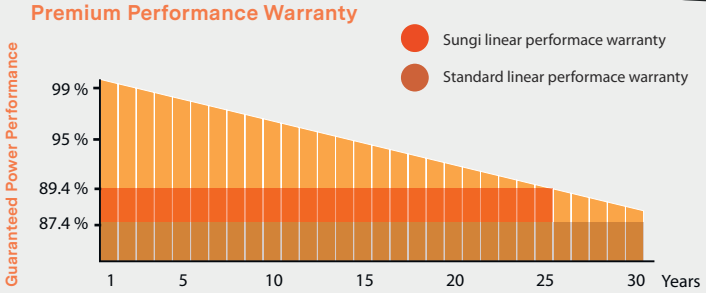


Solar power plants



Off-grid systems

Premium Performance Warranty



Complete System and Product Certifications

IEC 61215, IEC 61730, 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

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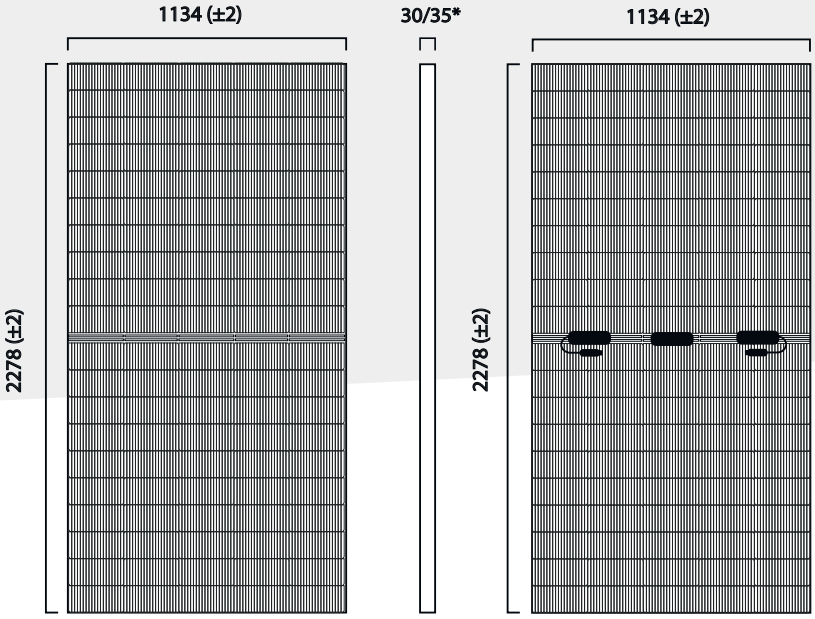
23.13 %
Max Module Efficiency

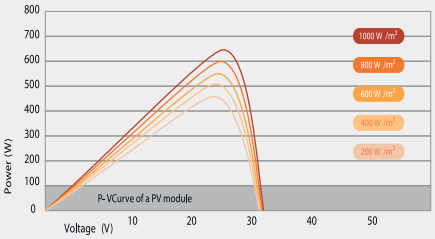
30 Y Warranty
on materials & workmanship

ENGINEERING DRAWINGS (mm)

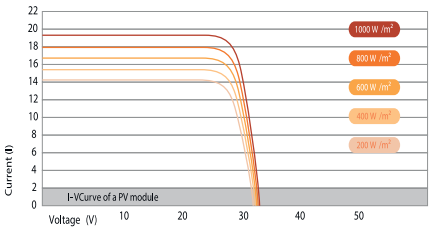


ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE | SNG555-B100DG

Power-Voltage Curves



Current-Voltage Curves



MODULE TYPE	SNG535-B100DG	SNG540-B100DG	SNG545-B100DG	SNG550-B100DG	SNG555-B100DG
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)[1]	535 Wp	540 Wp	545 Wp	550 Wp	555 Wp
Maximum Power Voltage (Vmp)	30.60 V / 29.01 V	30.80 V / 29.20 V	31.00 V / 29.39 V	31.20 V / 29.58 V	31.40 V / 29.77 V
Maximum Power Current (Imp)	17.48 A / 14.10 A	17.53 A / 14.14 A	17.58 A / 14.18 A	17.63 A / 14.22 A	17.68 A / 14.26 A
Open-Circuit Voltage (Voc)[1]	36.60 V / 34.70 V	36.80 V / 34.89 V	37.00 V / 35.08 V	37.20 V / 35.27 V	37.40 V / 35.46 V
Short-Circuit Current (Isc)[1]	18.26 A / 14.72 A	18.31 A / 14.77 A	18.36 A / 14.81 A	18.41 A / 14.85 A	18.46 A / 14.89 A
Module Efficiency (%)	22.29 %	22.50 %	22.71 %	22.92 %	23.13 %

SPECIFICATIONS (BNPI)	SNG535-B100DG	SNG540-B100DG	SNG545-B100DG	SNG550-B100DG	SNG555-B100DG
Maximum Power (Pmax)[1]	589 Wp	594 Wp	600 Wp	605 Wp	611 Wp
Maximum Power Voltage (Vmp)	30.60 V	30.80 V	31.00 V	31.20 V	31.40 V
Maximum Power Current (Imp)	19.23 A	19.29 A	19.34 A	19.39 A	19.44 A
Open-Circuit Voltage (Voc)[1]	36.71 V	36.91 V	37.11 V	37.31 V	37.51 V
Short-Circuit Current (Isc)[1]	20.09 A	20.14 A	20.20 A	20.25 A	20.31 A
Module Efficiency (%)	24.55 %	24.75 %	25.00 %	25.21 %	25.46 %

ALL MODULES DATA

Operating Temperature	- 40 °C to + 85 °C
Maximum System Voltage	1500 VDC
Maximum Series Fuse Rating	35 A
Temperature Coefficients of Pmax	- 0.26 % / °C
Temperature Coefficients of Voc	- 0.23 % / °C
Temperature Coefficients of Isc	+0.045 % / °C
Nominal Operating Cell Temperature (NOCT)	43 ± 2 °C
Power sorting	0 + 4.99 Wp
Maximum Static Test Load	5400 Pa (Front) / 2400 Pa (Rear)

Testing STC²/NMOT³ | Irradiance 1000 W/m 800 W/m | Module Temperature 25 °C | AM 1.5 Wind Speed | 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

TECHNICAL SPECIFICATION

Cell type	TOPCon Technology (210x105 mm)
Number of cells	100 (2x50)
Dimensions	2185x1098x30/35* mm
Weight	29.4 kg
Front Glass	2.0 mm AR Tempered Glass
Back Glass	2.0 mm Tempered Glass
Frame	Anodized Aluminum Alloy Total Black *
Junction Box	IP68 Rated
Output Cables	TUV 1x4.0 mm² / UL 12 AWG*
Output Cables Length	1200 mm*
Connectors	MC 4 or Compatible

PACKAGING CONFIGURATION

40' Container
- 36/31 pcs per pallet
- 18/20 pallets
- 648/620 total pcs

20' Container
- 36 pcs per pallet
- 9 pallets
- 324 total pcs

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