SUNGi SOLAR

SNG ELITE

Product Information Sheet SNG 640-650 Watt TOPCon Technology

HC MONO

640-650 Watt

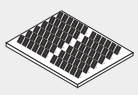
- **30 years** Product Material & Workmanship
- **30 years** Linear Performance Warranty
- **1 %** 1st-year Degradation
- **0.4 %** Annual Degradation

Highest quality with our cells
16 MBB TOPCon Technology

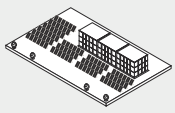
Quality and Safety

- 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.

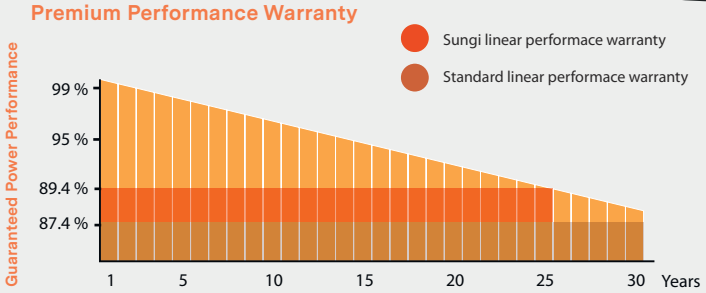


Solar power plants



Off-grid systems

Premium Performance Warranty



Complete System and Product Certifications

IEC 61215, IEC 61730, IEC 61701, IEC 62716, PPP 58042B:2015 (PID)
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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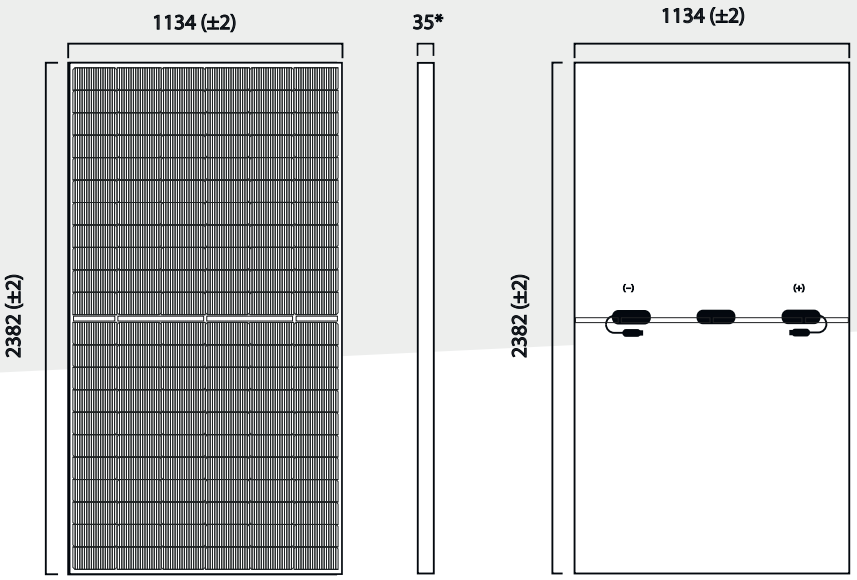
24.06 %
Max Module Efficiency

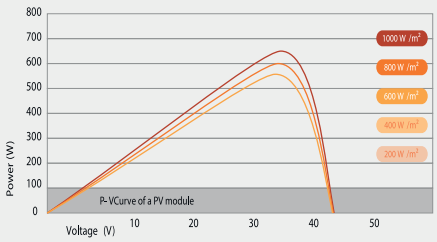
30 Y Warranty
on materials & workmanship

ENGINEERING DRAWINGS (mm)

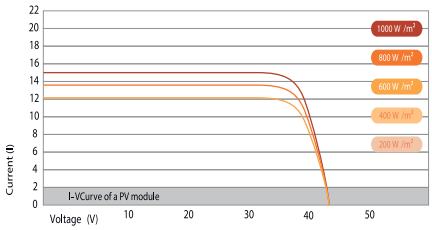


ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE |SNG 650-B132SG

Power-Voltage Curves



Current-Voltage Curves



MODULE TYPE	SNG640-B132SG	SNG645-B132SG	SNG650-B132SG
Testing Conditions	STC[2]/ NMOT[3]	STC[2]/ NMOT[3]	STC[2]/ NMOT[3]
Maximum Power at STC (Pmax)[1]	640 Wp	645 Wp	650 Wp
Maximum Power Voltage (Vmp)	42.50 V / 39.81 V	42.80 V / 40.02 V	43.10 V / 40.21 V
Maximum Power Current (Imp)	15.05 A / 12.16 A	15.07 A / 12.20 A	15.09 A / 12.24 A
Open-Circuit Voltage (Voc)[1]	50.80 V / 47.11 V	51.10 V / 47.33 V	51.40 V / 47.50 V
Short-Circuit Current (Isc)[1]	16.00 A / 13.10 A	16.03 A / 13.12 A	16.06 A / 13.16 A
Module Efficiency (%)	23.69 %	23.87 %	24.06 %

ALL MODULES DATA

Operating Temperature	- 40 °C to + 85 °C
Maximum System Voltage	1500 VDC
Maximum Series Fuse Rating	25 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 (182.2x105 mm)
Number of cells	132 (2×66)
Dimensions	2382x1134x35* mm
Weight	31.4 kg
Front Glass	3.2 mm AR Tempered Glass
Frame	Anodized Aluminum Alloy Silver Frame*
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
- 31 pcs per pallet
- 20 pallets
- 620 total pcs

20' Container
- 31 pcs per pallet
- 10 pallets
- 310 total pcs

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