SUNGi SOLAR

SNGECOLIVING

Product Information Sheet SNG 460-475 Watt TOPCon Rectangle Technology

HC MONO

460-475 Watt

Highest quality with our cells
16 MBB TOPCon Rectangle
Technology

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

Quality and Safety

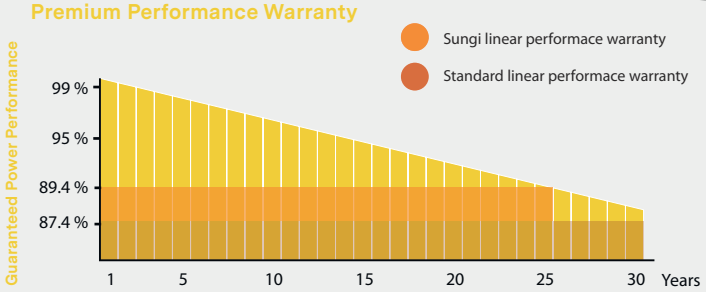
- Industry-leading power output warranty
  25 years / 89.4 %
  30 years / 87.4 %
- 30-year warranty on materials & workmanship
- Fire Test : According to EN13501-1 and 13501-5

- **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.

On-grid residential roof-tops

On-grid commercial Industrial roof-tops

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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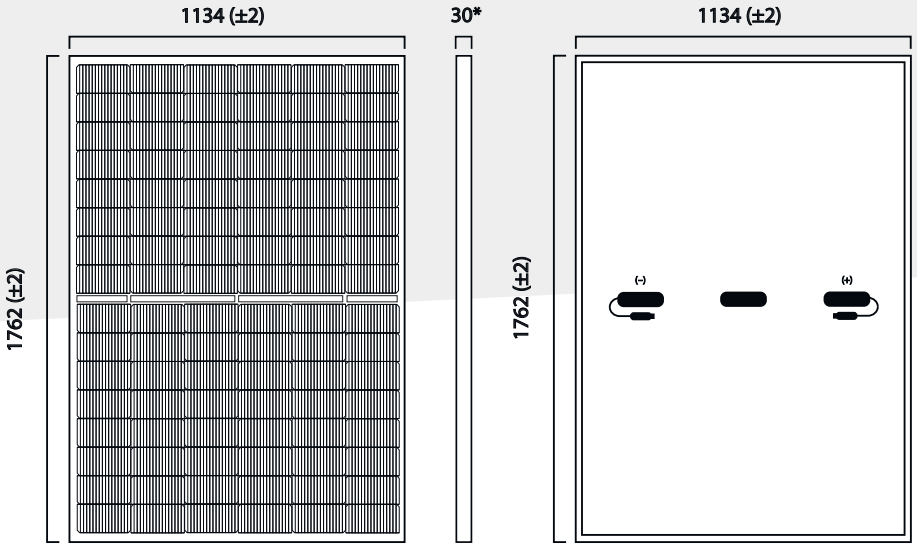
23.77 %
Max Module Efficiency

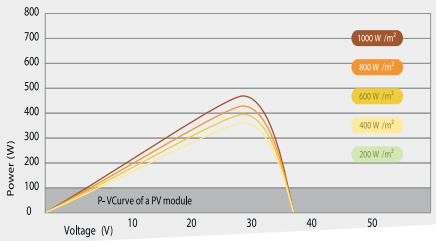
30 Y Warranty
on materials & workmanship

ENGINEERING DRAWINGS (mm)

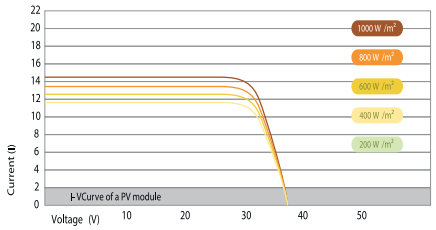


ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE | SNG475-B96SG

Power-Voltage Curves



Current-Voltage Curves



MODULE TYPE	SNG460-B96SG	SNG465-B96SG	SNG470-B96SG	SNG475-B96SG
Testing Conditions	STC[2]/ NMOT[3]	STC[2]/ NMOT[3]	STC[2]/ NMOT[3]	STC[2]/ NMOT[3]
Maximum Power at STC (Pmax)[1]	460 Wp	465 Wp	470 Wp	475 Wp
Maximum Power Voltage (Vmp)	30.64 V / 23.31V	30.89 V / 28.46 V	31.14 V / 28.64 V	31.39 V / 28.82 V
Maximum Power Current (Imp)	15.03 A / 12.22 A	15.06 A / 12.26 A	15.09 A / 12.32 A	15.13 A / 12.37 A
Open-Circuit Voltage (Voc)[1]	36.06 V / 33.62 V	36.27 V / 33.79 V	36.48 V / 33.96 V	36.69 V / 34.12 V
Short-Circuit Current (Isc)[1]	15.93 A / 13.03 A	15.96 A / 13.07 A	15.99 A / 13.10 A	16.02 A / 13.14 A
Module Efficiency (%)	23.02 %	23.27 %	23.52 %	23.77 %

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 | °C | 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

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

35 A
0.26 % / °C
- 0.23 % / °C
+0.045 % / °C
43 ± 2 °C
0 + 4.99 Wp

TECHNICAL SPECIFICATION

Cell type	TOPCON Rectangle Technology (182.2x105 mm)
Number of cells	96 (2×48)
Dimensions	1762x1134x30* mm
Weight	23.7 kg
Front Glass	3.2 mm AR Tempered Glass
Frame	Anodized Aluminum Alloy Total Black*
Junction Box	IP68 Rated
Output Cables	TUV 1x4.0 mm² / UL 12 AWG*
Output Cables Length	1100 mm*
Connectors	MC4 or Compatible

PACKAGING CONFIGURATION

40' Container
- 36 pcs per pallet
- 26 pallets
- 936 total pcs

20' Container
- 36 pcs per pallet
- 10 pallets
- 360 total pcs