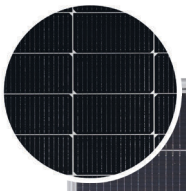
SUNGI SOLAR

SNG EUROPE

Product Information Sheet SNG 490-505 Watt TOPCon Technology

HC MONO

490-505 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

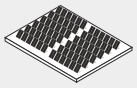
Quality and Safety

- 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.

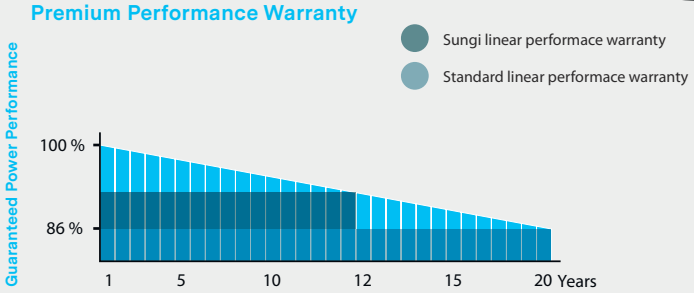
On-grid residential roof-tops

On-grid commercial Industrial roof-tops



Solar power plants

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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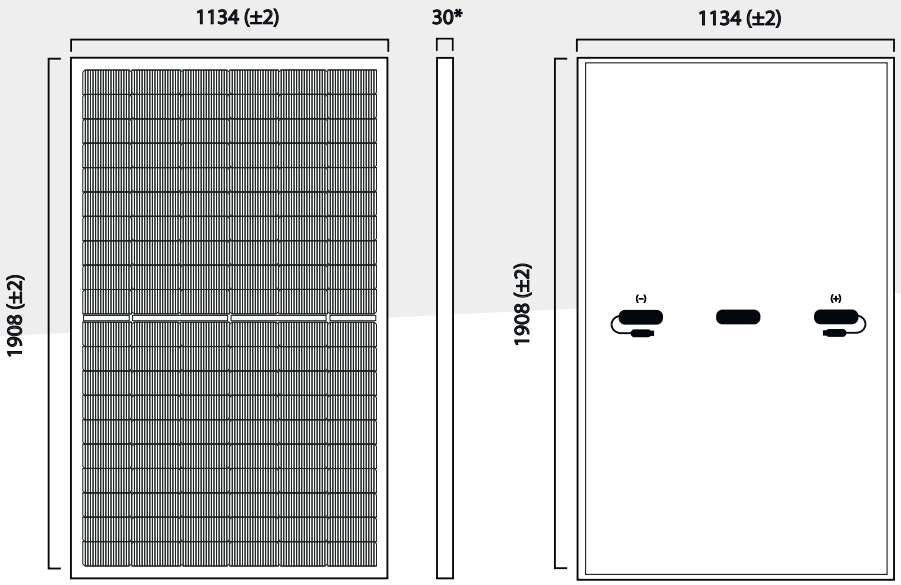
23.34 %

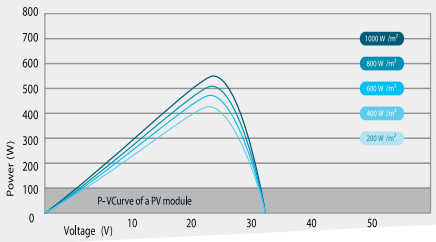
Max Module Efficiency

ENGINEERING DRAWINGS (mm)

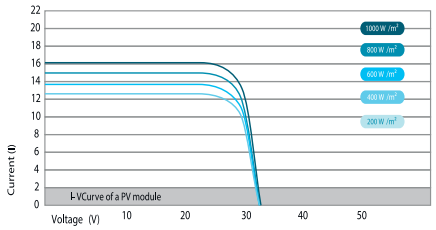


ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE | SNG505-B120SG

Power-Voltage Curves



Current-Voltage Curves



MODULE TYPE	SNG490-B120SG	SNG495-B120SG	SNG500-B120SG	SNG505-B120SG
Testing Conditions	STC[2]/ NMOT[3]	STC[2]/ NMOT[3]	STC[2]/ NMOT[3]	STC[2]/ NMOT[3]
Maximum Power at STC (Pmax)x[1]	490 Wp	495 Wp	500 Wp	505 Wp
Maximum Power Voltage (Vmp)	35.72 V / 33.46 V	35.90 V / 33.55 V	36.08 V 33.65 V	36.26 V / 33.74 V
Maximum Power Current (Imp)	13.73 A / 11.03 A	13.81 A / 11.10 A	13.87 A / 11.19 A	13.93 A / 11.27 A
Open-Circuit Voltage (Voc)[1]	43.05 V / 40.80 V	43.22 V / 40.99 V	43.39 V / 41.18 V	43.56 V / 41.36 V
Short-Circuit Current (Isc)[1]	14.47 A / 11.71A	14.55 A / 11.77 A	14.63 A / 11.82 A	14.71 A / 11.88 A
Module Efficiency (%)	22.65 %	22.88 %	23.11 %	23.34 %

ALL MODULES DATA

Operating Temperature	- 40 °C to + 85 °C
Maximum System Voltage	1500 VDC
Maximum Series Fuse Rating	20 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 (182.2x91.875 mm)
Number of cells	120 (2×60)
Dimensions	1908x1134x30* mm
Weight	23.7 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	1100 mm*
Connectors	MC 4 or Compatible

PACKAGING CONFIGURATION

40' Container

- 36 pcs per pallet
- 26 pallets
- 936 total pcs

MADE IN EUROPE

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