SUNGi SOLAR

SNG ELITE

# Product Information Sheet SNG 575-590 Watt TOPCon Technology

## HC MONO

# 575-590 Watt

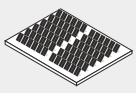
- **30 years** Product Material & Workmanship
- **30 years** Linear Performance Warranty
- **1 %** 1st-year Degradation
- **0.4 %** Annual Degradation

Highest quality with our cells
16 MBB TOPCon Technology

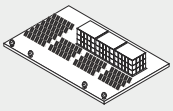
## Quality and Safety

- 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.

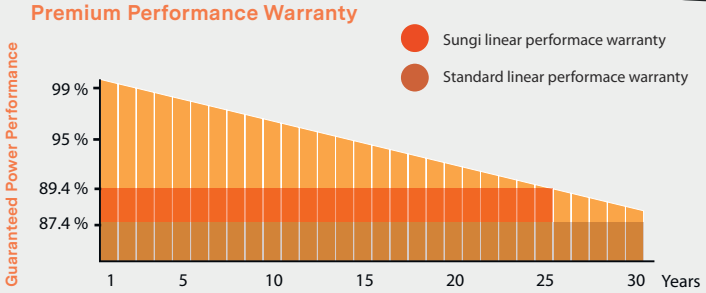


Solar power plants



Off-grid systems

### Premium Performance Warranty




### Complete System and Product Certifications

IEC 61215, IEC 61730, IEC 61701, IEC 62716
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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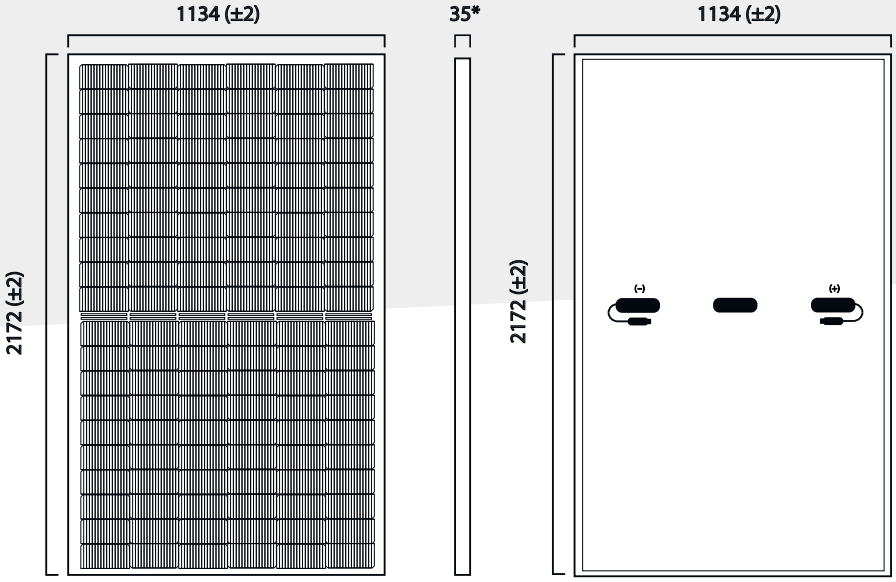
**23.95 %**
*Max Module Efficiency*

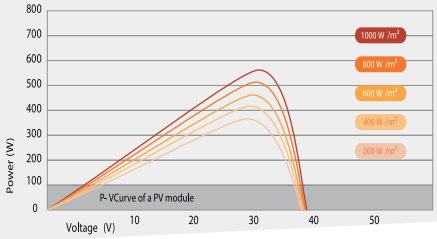
**30 Y Warranty**
*on materials & workmanship*

## ENGINEERING DRAWINGS (mm)

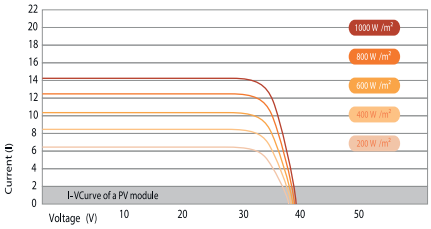



## ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE | SNG590-B120SG

Power-Voltage Curves




Current-Voltage Curves




| MODULE TYPE | SNG575-B120SG | SNG580-B120SG | SNG585-B120SG | SNG590-B120SG |
|---|---|---|---|---|
| Testing Conditions | STC[2]/ NMOT[3] | STC[2]/ NMOT[3] | STC[2]/ NMOT[3] | STC[2]/ NMOT[3] |
| Maximum Power at STC (Pmax)[1] | 575 Wp | 580 Wp | 585 Wp | 590 Wp |
| Maximum Power Voltage (Vmp) | 38.40 V / 37.3 V | 38.60 V / 37.44 V | 38.80 V / 37.61 V | 39.00 V / 37.78 V |
| Maximum Power Current (Imp) | 14.98 A / 11.48 A | 15.03 A / 11.53 A | 15.08 A / 11.59 A | 15.13 A / 11.64 A |
| Open-Circuit Voltage (Voc)[1] | 44.90 V / 42.58 V | 45.10 V / 42.77 V | 45.30 V / 42.96 V | 45.50 V / 43.16 V |
| Short-Circuit Current (Isc)[1] | 15.84 A / 12.87 A | 15.90 A / 12.92 A | 15.96 A / 12.98 A | 16.02 A / 13.02 A |
| Module Efficiency (%) | 23.35 % | 23.55 % | 23.75 % | 23.95 % |

## 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 | TOPConTechnology (182.2x105 mm) |
| Number of cells | 120 (2×60) |
| Dimensions | 2172x1134x35* mm |
| Weight | 28.9 kg |
| Glass | 3.2 mm AR Tempered Glass |
| Frame | Anodized Aluminum Alloy Black 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.