

Product Information Sheet SNG120-480EHCM10

HC MONO 480 Watt

Highest quality with our cells 16 MBB

Quality and Safety



Industry-leading power output warranty
30 years / 86 %



20-year warranty on materials
& workmanship

- ✓ Premium quality
- ✓ 100 % EL testing
- ✓ Low weight
- ✓ Efficiency up to 22.17 %
- ✓ Power output range 480 Wp
- ✓ Mechanical load up to 2400 Pa
- ✓ IEC EN 61215-1,-1-1,-2
IEC EN 61730-1,-2
- ✓ Positive power tolerance -0/+4.9 W



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

Complete System and Product Certifications

IEC 61215 (2021), IEC 61730 (2023), IEC 61701, IEC 62716

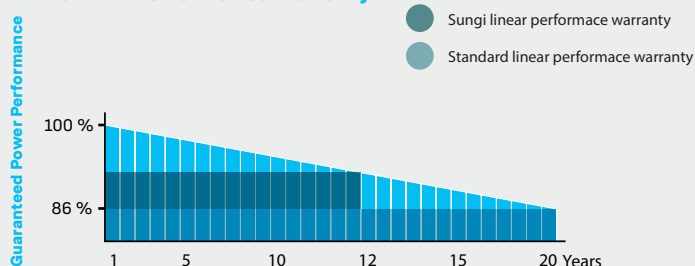
ISO 9001:2015: Quality Management System

ISO 14001:2015: Environmental Management System

ISO 45001:2018: Occupational Health and Safety Management System

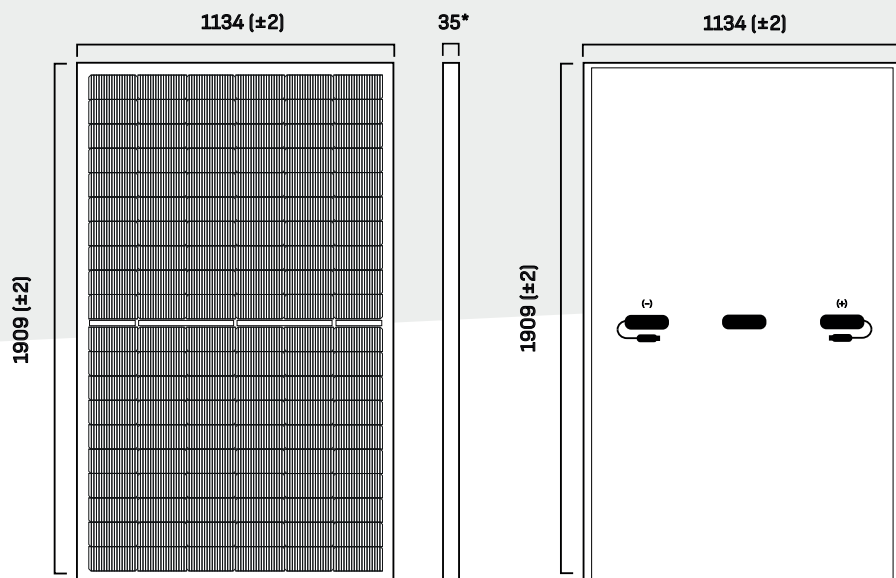


Premium Performance Warranty



22.17 %
Max Module Efficiency

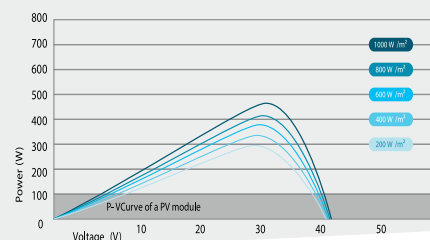
ENGINEERING DRAWINGS (mm)



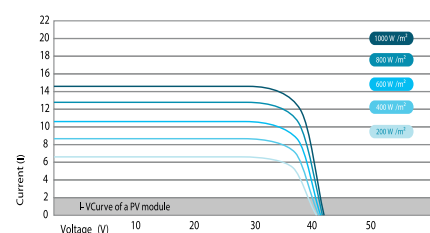
ELECTRICAL PERFORMANCE & TEMPERATURE

DEPENDENCE | SNG - 480

Power-Voltage Curves



Current-Voltage Curves



MODULE TYPE SNG120-480EHCM10

Testing Conditions	STC ^[2] / NMOT ^[3]
Maximum Power at STC (Pmax)	480 Wp
Maximum Power Voltage (Vmp)	35.13 V / 33.40 V
Maximum Power Current (Imp)	13.67 A / 10.88 A
Open-Circuit Voltage (Voc)	42.86 V / 40.70 V
Short-Circuit Current (Isc)	14.39 A / 11.63 A
Module Efficiency (%)	22.17 %

ALL MODULES DATA

Operating Temperature [DC]	- 40 °C to + 85 °C
Maximum System Voltage	1500 VDC
Maximum Series Fuse Rating	25 A
Power Output Tolerance ^[1]	- 0 / + 4,9 W
Temperature Coefficients of Pmax	- 0.322 % / °C
Temperature Coefficients of Voc	- 0.22 % / °C
Temperature Coefficients of Isc	+0.033 % / °C
Nominal Operating Cell Temperature (NOCT)	45 ± 2 °C

**MADE IN
EUROPE**

TECHNICAL SPECIFICATION

Cell type	(182x91 mm)
Number of cells	120 (2x60)
Dimensions	1909x1134x35* mm
Weight	22.3 kg
Encapsulant	POE(Polyolefin Elastomer) / Ethylene vinyl acetate (EVA)
Front Glass	AR Coated, Tempered solar glass 3.2 mm
Back	Composite polyester film
Frame	Black Anodized aluminum frame with twin-wall profile and drainage holes
Junction Box	IP68 with 3 Bypass diodes
Cables & connectors	Solar cable 4 mm², lenght 1100 mm; MC4 compatible connectors

PACKAGING CONFIGURATION



40' Container

- 31 pcs per pallet
- 26 pallets
- 806 total pcs

Testing Conditions
STC²/NMOT³

Irradiance
1000 W/m
800 W/m

Module Temperature
25 °C
20 °C

AM
1.5
Wind Speed 1m/s

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 reserves all the rights to final integrations.