

Product Information Sheet SNG144-580EGG22HCM10

BIFACIAL 580 Watt

Highest quality with our cells 16 MBB

Quality and Safety



Industry-leading power output warranty
30 years / 87,4 %



**25-year warranty on materials
& workmanship**

✓ **Premium quality**

✓ **Power output
580 Wp**

✓ **100 % EL testing**

✓ **Mechanical load
up to 5400 Pa**

✓ **Efficiency
22.45 %**

✓ **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

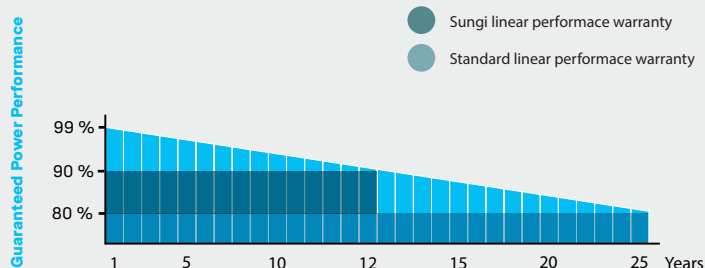
IEC 61215 (2021), IEC 61730 (2023), IEC 61701, IEC 62716

ISO 9001:2015: Quality Management System

ISO 14001:2015: Environmental Management System

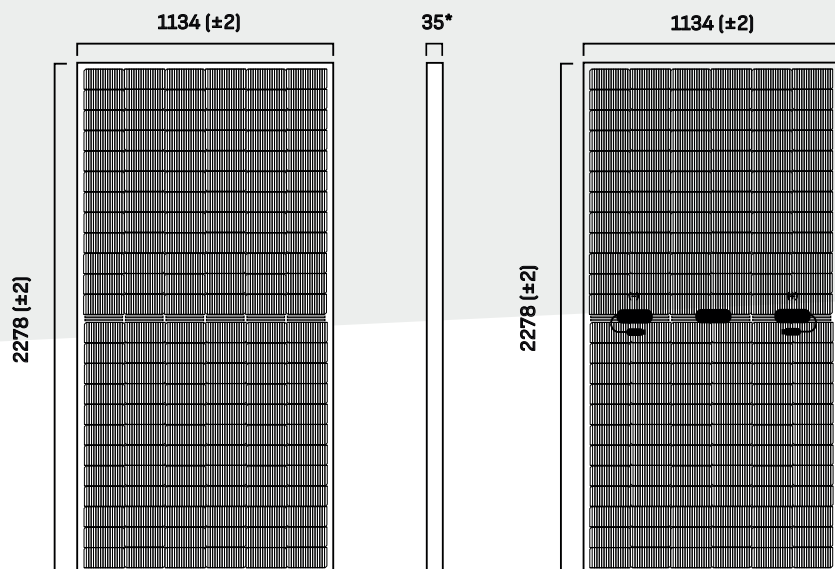
ISO 45001:2018: Occupational Health and Safety Management System

Premium Performance Warranty



22.45 %
Max Module Efficiency

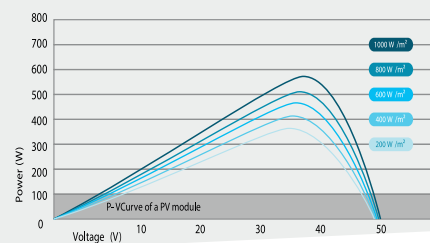
ENGINEERING DRAWINGS (mm)



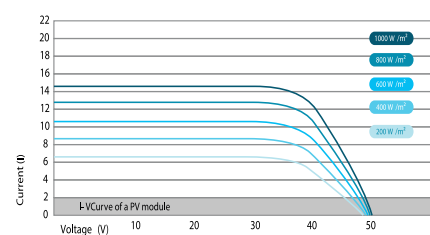
ELECTRICAL PERFORMANCE & TEMPERATURE

DEPENDENCE |SNG - 580

Power-Voltage Curves



Current-Voltage Curves



MODULE TYPE SNG144-580EGG22HCM10

Testing Conditions	STC ⁽²⁾ / NMOT ⁽³⁾
Maximum Power at STC (Pmax)	580 Wp
Maximum Power Voltage (Vmp)	42.33 V / 40.02 V
Maximum Power Current (Imp)	13.71 A / 10.92 A
Open-Circuit Voltage (Voc)	51.04 V / 48.50 V
Short-Circuit Current (Isc)	14.50 A / 11.71 A
Module Efficiency (%)	22.45 %

BIFACIAL OUTPUT- REAR SIDE SNG144-580EGG22HCM10

Power gain 5 %	609 Wp
Power gain 10 %	638 Wp
Power gain 15 %	667 Wp

ALL MODULES DATA

Operating Temperature [DC]	- 40 °C to + 85 °C
Maximum System Voltage	1500 VDC
Maximum Series Fuse Rating	30 A
Power Output Tolerance ⁽¹⁾	-0/+4.9 W
Temperature Coefficients of Pmax	- 0.289 % / °C
Temperature Coefficients of Voc	- 0.244 % / °C
Temperature Coefficients of Isc	+0.045 % / °C
Nominal Operating Cell Temperature (NOCT)	45 ± 2 °C

**MADE IN
EUROPE**

TECHNICAL SPECIFICATION

Cell type	(182x91 mm)
Number of cells	144 (2x72)
Dimensions	2278x1134x35* mm
Weight	30 kg
Solar cells	POE(Polyolefin Elastomer) / Ethylene vinyl acetate (EVA)
Front Glass	2.0 mm tempered solar glass
Back	2.0mm semi-tempered glass
Frame	Silver anodized aluminum frame with twin-wall profile and drainage holes
Junction Box	min.IP68 with 3 Bypass diodes
Cables & connectors	Solar cable 4 mm², lenght 1400 mm; MC4 compatible connectors

PACKAGING CONFIGURATION

40' Container

- 36 pcs per pallet
- 24 pallets
- 864 total pcs

20' Container

- 36 pcs per pallet
- 10 pallets
- 360 total pcs



⁽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.