

**Product Information Sheet SNG144-580EHCM10**

**HC MONO**  
**580 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**
-  **Power output range 580 Wp**
-  **100 % EL testing**
-  **Mechanical load up to 2400 Pa**
-  **Low weight**
-  **IEC EN 61215-1,-1-1,-2 IEC EN 61730-1,-2**
-  **Efficiency up to 22.45 %**
-  **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.



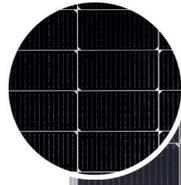
On-grid residential roof-tops



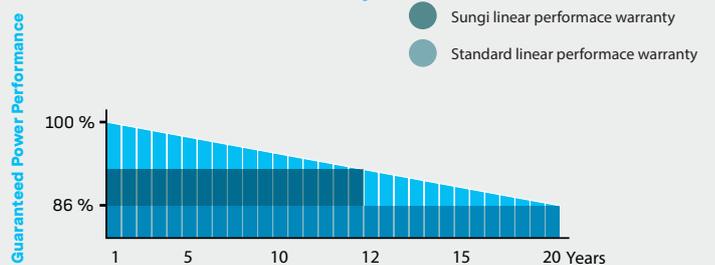
On-grid commercial Industrial roof-tops

**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

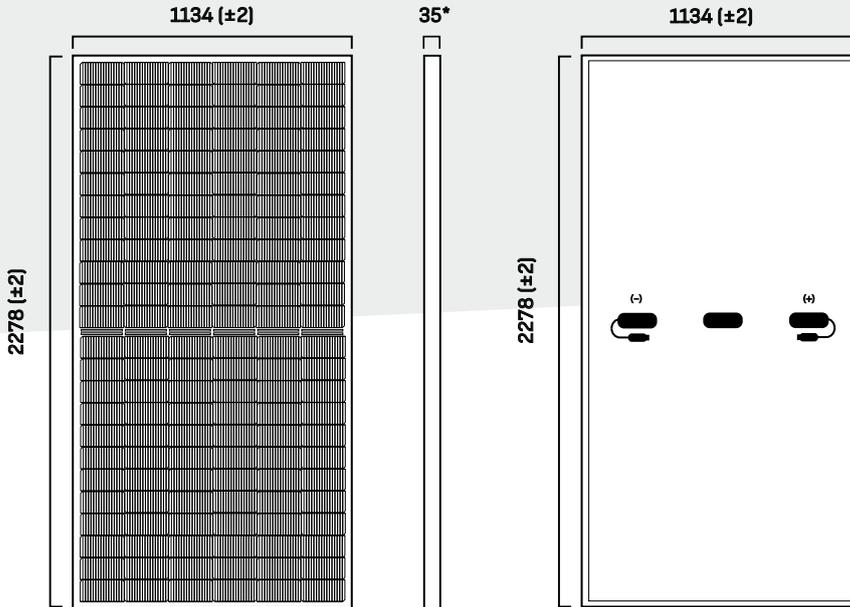


**Premium Performance Warranty**



**22.45 %**  
Max Module Efficiency

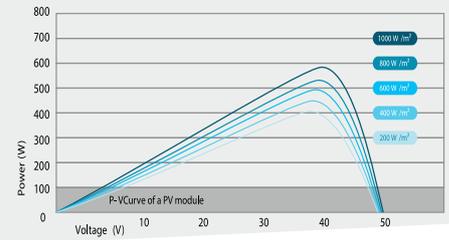
**ENGINEERING DRAWINGS (mm)**



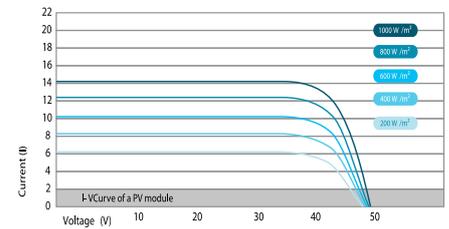
**ELECTRICAL PERFORMANCE & TEMPERATURE**

**DEPENDENCE | SNG - 580**

Power-Voltage Curves



Current-Voltage Curves



MODULE TYPE	SNG144-580EHCM10
Testing Conditions	STC <sup>2)</sup> /NMOT <sup>3)</sup>
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 %

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 <sup>1)</sup>	- 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



TECHNICAL SPECIFICATION	
Cell type	(182x91 mm)
Number of cells	144 (2x72)
Dimensions	2278x1134x35* mm
Weight	27 kg
Encapsulant	POE(Polyolefin Elastomer) / Ethylene vinyl acetate (EVA)
Front Glass	AR Coated, Tempered solar glass 3.2 mm
Back	Composite polyester film
Frame	Anodized aluminum frame with twin-wall profile and drainage holes
Junction Box	IP68 with 3 Bypass diodes
Cables & connectors	Solar cable 4 mm <sup>2</sup> , lenght 1400 mm; MC4 compatible connectors

**PACKAGING CONFIGURATION**



**40' Container**

- 31 pcs per pallet
- 22 pallets
- 682 total pcs

Testing Conditions  
**STC<sup>2)</sup>/NMOT<sup>3)</sup>**

Irradiance  
**1000 W/m  
800 W/m**

Module Temperature  
**25 °C  
20 °C**

AM  
**1.5**  
Wind Speed 1m/s

Fire Rating  
**Class 1**

<sup>1)</sup> Measurement Tolerances : Pmax (± 3 %), Isc & Voc (± 3 %)

<sup>2)</sup> STC (Standard Testing Condition) : Irradiance : 1000 W/m<sup>2</sup>, Cell Temperature: 25 °C, AM : 1.5

<sup>3)</sup> NMOT (Nominal Operating Module Temperature) : Irradiance : 800 W/m<sup>2</sup>, 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.