

Product Information Sheet SNG 580-595 Watt TOPCon Technology

HC MONO 580-595 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

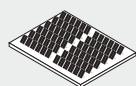
Quality and Safety

- ① **Industry-leading power output warranty**
25 years / 89.4 %
30 years / 87.4 %

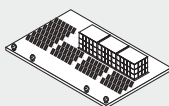
- ✓ **30-year warranty on materials & workmanship**

- ✓ **Fire Test: Class 1**

- ✓ **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.



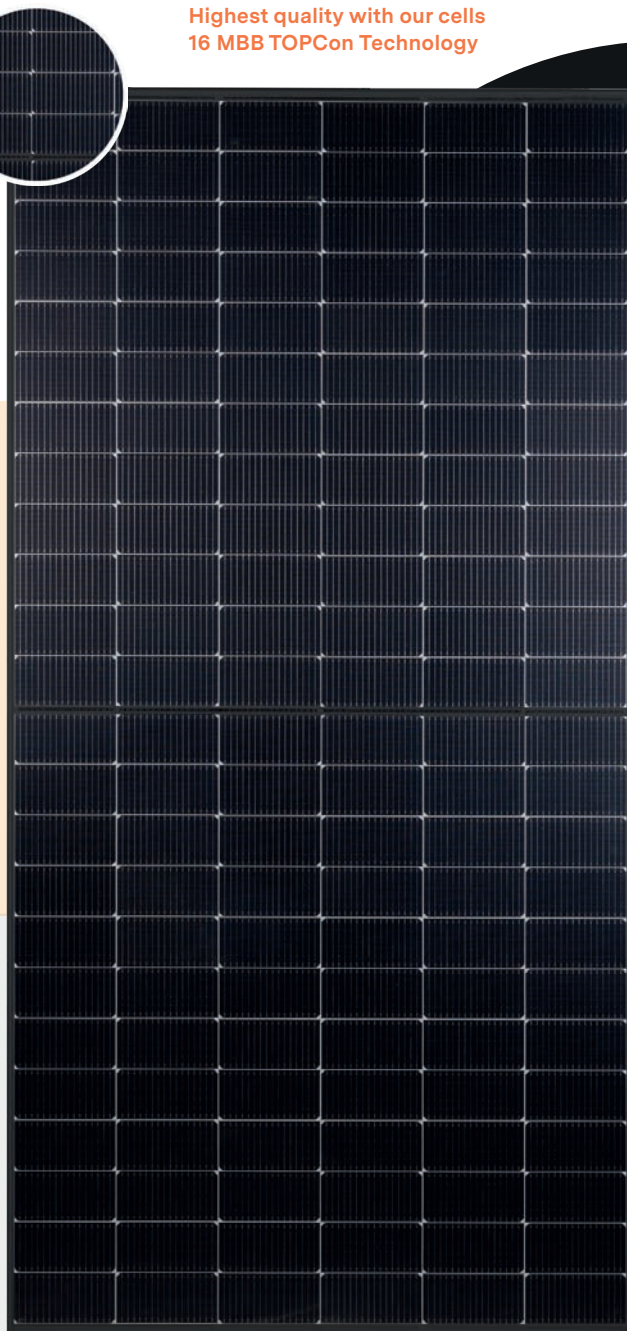
Solar power plants



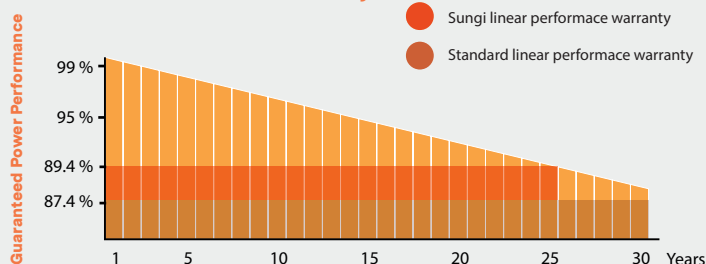
Off-grid systems

Complete System and Product Certifications

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IEC 62941:2019: Quality System for PV Module Manufacturing



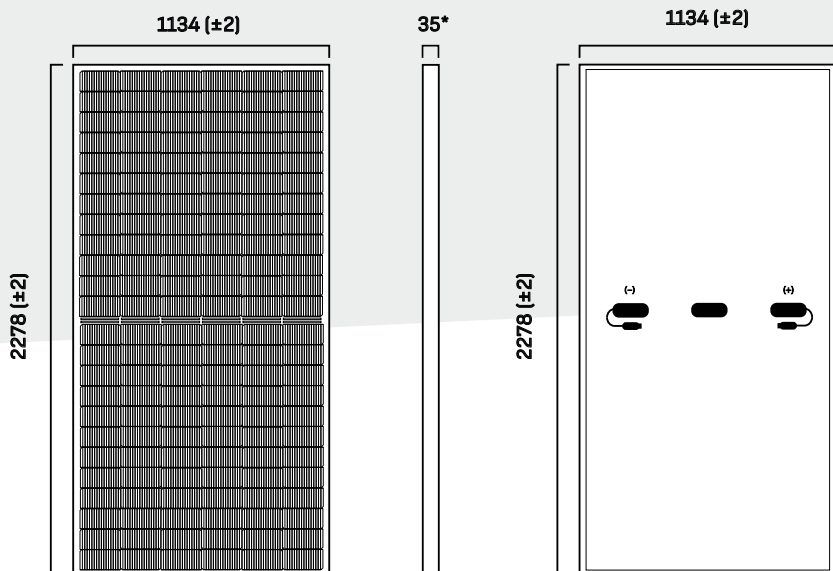
Premium Performance Warranty



23.03 %
Max Module Efficiency

30 Y Warranty
on materials & workmanship

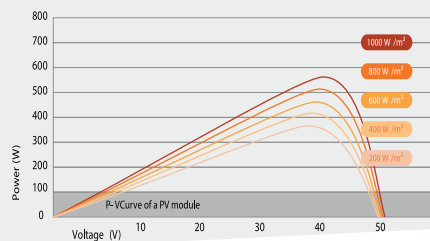
ENGINEERING DRAWINGS (mm)



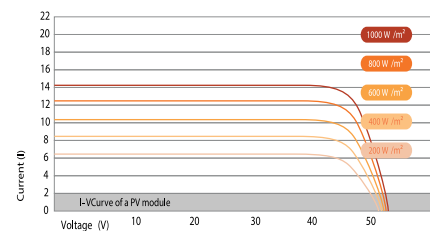
ELECTRICAL PERFORMANCE & TEMPERATURE

DEPENDENCE |SNG - 595

Power-Voltage Curves



Current-Voltage Curves



MODULE TYPE	SNG-580 W	SNG-585 W	SNG-590 W	SNG-595 W
Testing Conditions	STC ^[2] / NMOT ^[3]	STC ^[2] / NMOT ^[3]	STC ^[2] / NMOT ^[3]	STC ^[2] / NMOT ^[3]
Maximum Power at STC (Pmax)	580 Wp	585 Wp	590 Wp	595 Wp
Maximum Power Voltage (Vmp)	42.80 V / 39.69 V	43.00 V / 39.81 V	43.20 V / 39.90 V	43.40 V / 39.99 V
Maximum Power Current (Imp)	13.56 A / 10.99 A	13.61 A / 11.05 A	13.66 A / 11.13 A	13.71 A / 11.21 A
Open-Circuit Voltage (Voc)	50.93 V / 48.46 V	51.17 V / 48.60 V	51.41 V / 48.74 V	51.65 V / 48.88 V
Short-Circuit Current (Isc)	14.36 A / 11.68 A	14.42 A / 11.75 A	14.48 A / 11.82 A	14.53 A / 11.89 A
Module Efficiency (%)	22.45 %	22.64 %	22.83 %	23.03 %

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]	± 3 %
Temperature Coefficients of Pmax	- 0.29 % / °C
Temperature Coefficients of Voc	- 0.25 % / °C
Temperature Coefficients of Isc	+0.045 % / °C
Nominal Operating Cell Temperature (NOCT)	45 ± 2 °C

TECHNICAL SPECIFICATION

Cell type	TOPConTechnology (182x91 mm)
Number of cells	144 (2×72)
Dimensions	2278x1134x35* mm
Weight	32 kg
Glass	3.2 mm anti-reflection
Frame	Anodized Aluminum Alloy Black Frame*
Junction Box	IP68 Rated
Output Cables	TUV 1x4.0 mm² / UL 12 AWG*
Output Cables Length	1400 mm*
Connectors	MC 4

PACKAGING CONFIGURATION



40' Container

- 31 pcs per pallet
- 20 pallets
- 620 total pcs



20' Container

- 31 pcs per pallet
- 10 pallets
- 310 total pcs

Testing Conditions
STC²/NMOT³

Irradiance
1000 W/m²
800 W/m²

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

Not applicable for installations in transition 5.0/ feed in tariff for italian market

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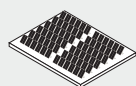
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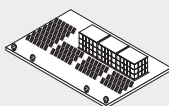
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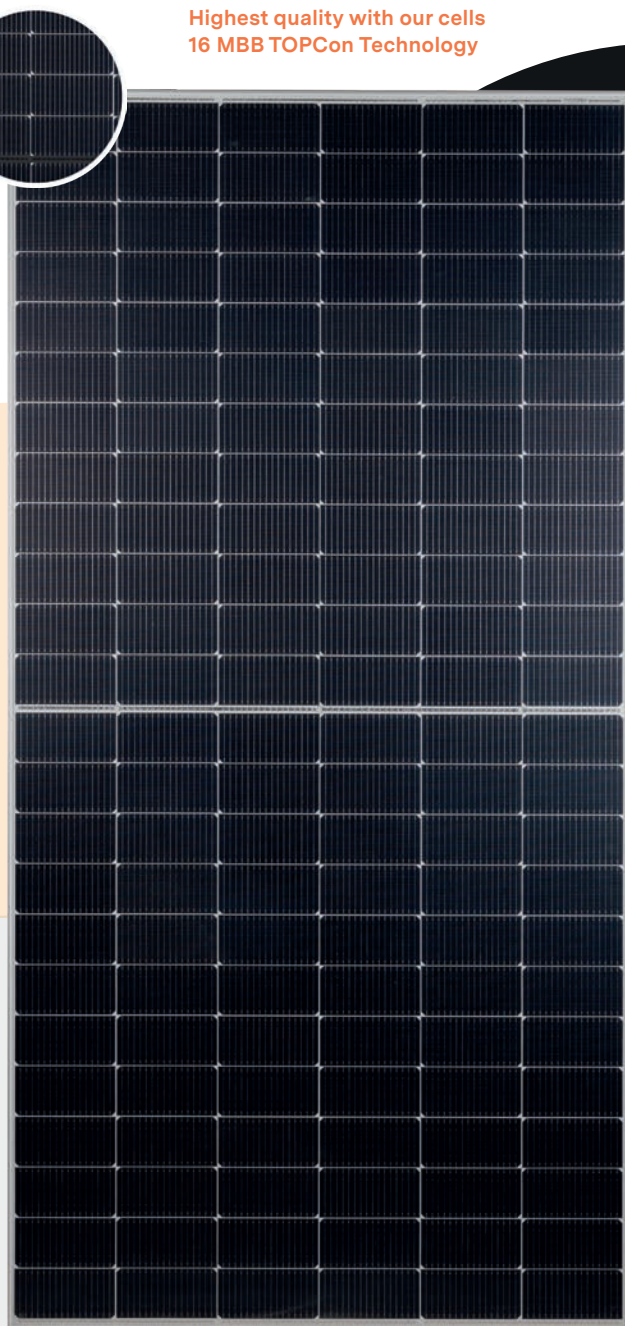
Solar power plants



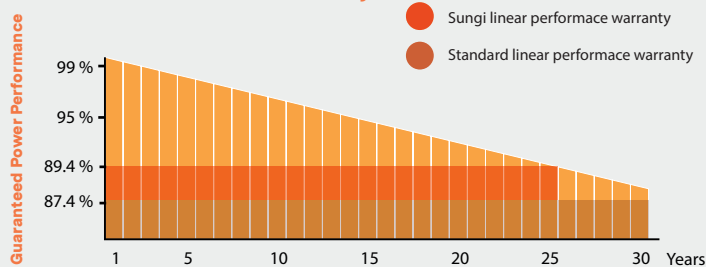
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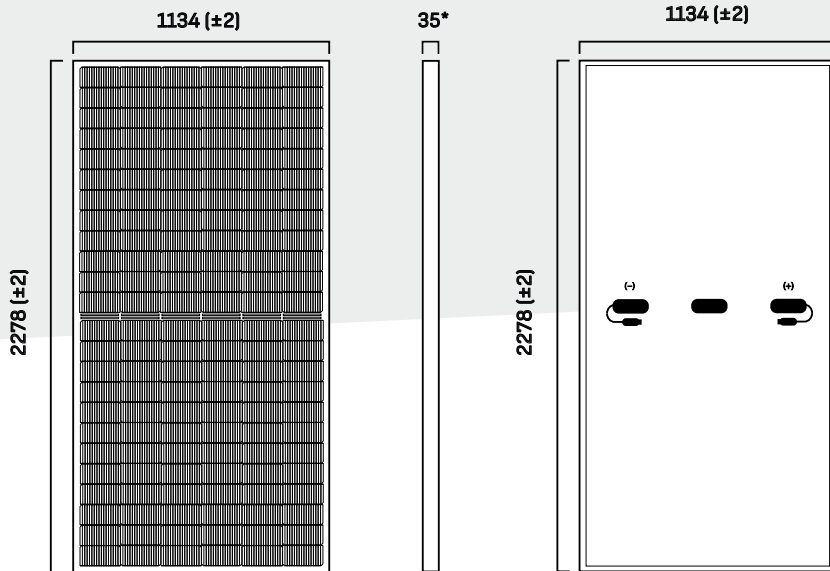
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23.03 %
Max Module Efficiency

30 Y Warranty
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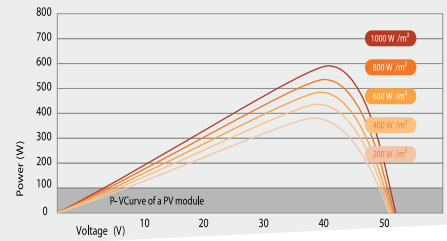
ENGINEERING DRAWINGS (mm)



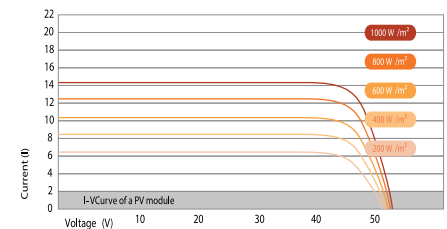
ELECTRICAL PERFORMANCE & TEMPERATURE

DEPENDENCE | SNG - 595

Power-Voltage Curves



Current-Voltage Curves



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Weight	32 kg
Glass	3.2 mm anti-reflection
Frame	Anodized Aluminum Alloy Silver Frame*
Junction Box	IP68 Rated
Output Cables	TUV 1x4.0 mm² / UL 12 AWG*
Output Cables Length	1400 mm*
Connectors	MC 4

PACKAGING CONFIGURATION



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Irradiance
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800 W/m²

Module Temperature
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AM
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Wind Speed 1m/s

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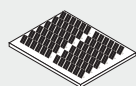
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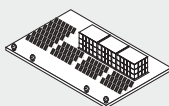
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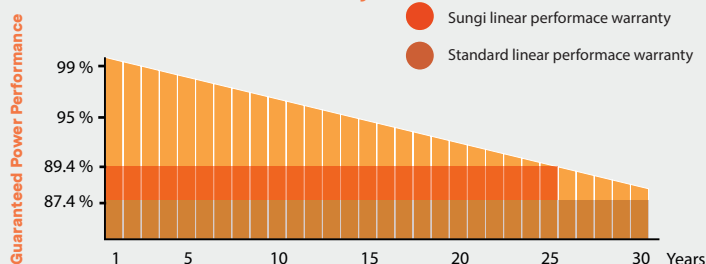
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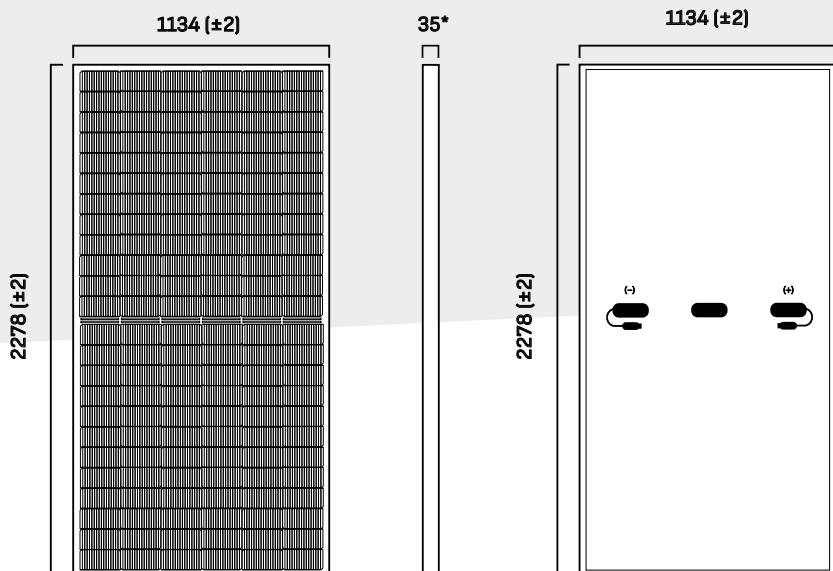
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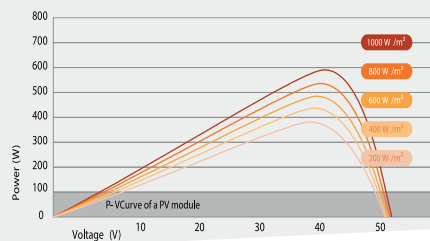
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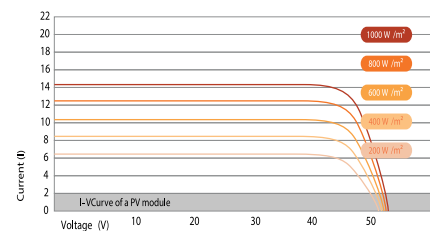
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