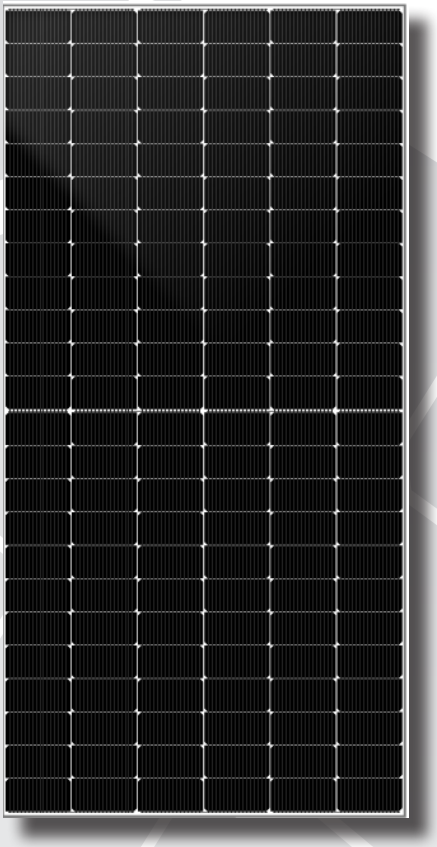
EN

Sunerg SOLAR ENERGY

X-HALF CUT N-TYPE serie TOPCon +



575/595Wp
Power

TOPCon +
Cells tecnology

Bifacial
Double Glass

23.03%
Efficiency

2400Pa
Wind load

5400Pa
Snow load

-0.290%/°C
Temperature Coefficient

Classe E
Classe E in BROOF T2
CEI TS 82-89
Reazione al fuoco

X-HALF CUT N-Type serie TOPCON+ involves the introduction of a thin oxide layer between the metal contacts and the silicon wafer, which brings significant improvements in cell conversion efficiency and power generation performance.

Linear Warranty:

- **30 years linear power Warranty**
- **99%** at the end of the **1st** year
- **87,4%** at the end of the **30th** year

Product Warranty:

- **15 years product Warranty**

CONFORM TO

| UNI9177 | PV CYCLE | CE |

UNI EN ISO 9001:2015 | Quality management system
UNI EN ISO 14001:2015 | Standards for environmental management system
UNI EN ISO 45001:2018 | International standards for occupational health and safety

ELECTRICAL DATA (STC)*		XMTG1575CBDW	XMTG1580CBDW	XMTG1585CBDW	XMTG1590CBDW	XMTG1595CBDW
Open circuit Voltage	(Voc)	51.20 V	51.40 V	51.60 V	51.80 V	52.00 V
Maximum Power Voltage	(Vmp)	43.40 V	43.60 V	43.80 V	44.00 V	44.20 V
Short-circuit current	(Isc)	14.08 A	14.14 A	14.20 A	14.26 A	14.32 A
Maximum Power Current	(Imp)	13.25 A	13.30 A	13.36 A	13.41 A	13.46 A
Nominal Peak Power	(Pmax)	575 Wp	580 Wp	585 Wp	590 Wp	595 Wp
Module Efficiency		22.26%	22.45%	22.65%	22.84%	23.03%
Power output tolerance		0 ~ + 5W				
Maximum voltage		1500 V DC				
Maximum series fuse rating		30 A				
Operating Temperature		- 40°C ~ +85°C				

* Irradiance 1000 w/m2, temperature 25°C, AM= 1.5

Tolerance electric measurement and Power output ±3%

ELECTRICAL DATA (NOCT)						
Peak Power	(Pmax)	432 Wp	436 Wp	440 Wp	444 Wp	447 Wp
Open circuit Voltage	(Voc)	48.60 V	48.80 V	49.00 V	49.20 V	49.40 V
Short-circuit current	(Isc)	11.37 A	11.42 A	11.46 A	11.51 A	11.56 A
Maximum Power Voltage	(Vmp)	41.20 V	41.40 V	41.60 V	41.80 V	42.00 V
Maximum Power Current	(Imp)	10.49 A	10.53 A	10.57 A	10.61 A	10.66 A

* Irradiance 800 w/m2, temperature 20°C, AM= 1.5 wind speed 1 m/s

DOUBLESIDE POWER GENERATION PARAMETERS (REAR GAIN)						
Potenza di picco	(5%)	(Pmax)	603.75 Wp	609 Wp	614.25 Wp	619.5 Wp	624.75 Wp
Efficienza del modulo	(5%)		23.37 %	23.57%	23.78%	23.98%	24.18%
Potenza di picco	(15%)	(Pmax)	661 Wp	667 Wp	673 Wp	679 Wp	684 Wp
Efficienza del modulo	(15%)		25.60%	25.82%	26.04%	26.27%	26.49%
Potenza di picco	(25%)	(Pmax)	719 Wp	725 Wp	731 Wp	738 Wp	744 Wp
Efficienza del modulo	(25%)		27.82%	28.07%	28.31%	28.55%	28.79%

TEMPERATURE COEFFICIENT

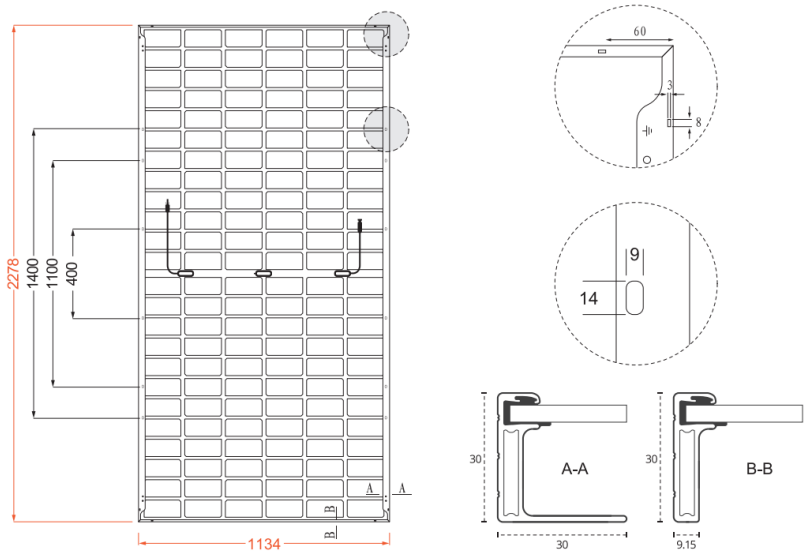
NOCT	**45°C±2°C**
Pmax Temperature Coefficient	**-0.290%/ °C**
Voc Temperature Coefficient	**-0.250%/ °C**
Isc Temperature Coefficient	**0.046% / °C**

MECHANICAL CHARACTERISTIC

Maximum Load	**5400 Pa / 2400 Pa**
Dimensions (mm)	**2278 x 1134 x 30**
Weight (Kg)	**30.8**
Solar cells type	**N type Mono**
No. solar cells	**144 (6x24)**
Cells Dimension (mm)	**182 x 91**
Bifacciality	**80 ± 5%**

PACKING CONFIGURATION

Module per Pallet	**36 pcs**
Modules per container 40'HQ	**720 pcs**



GENERAL INFORMATION

Glass	**2,0 mm high transmission, AR coating**
Frame	**Anodized aluminum alloy**
Juntion Box	**IP68, 3 Bypass diodes**
Output Cable	**4.0mm², in length 300/200mm (Or Customized Length)**
Connectors	**MC4 Compatible**

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