

X-HALF CUT N-TYPE serie TOPCon

420/430_{Wp}
Power

TOPCon Cells

Bifacial

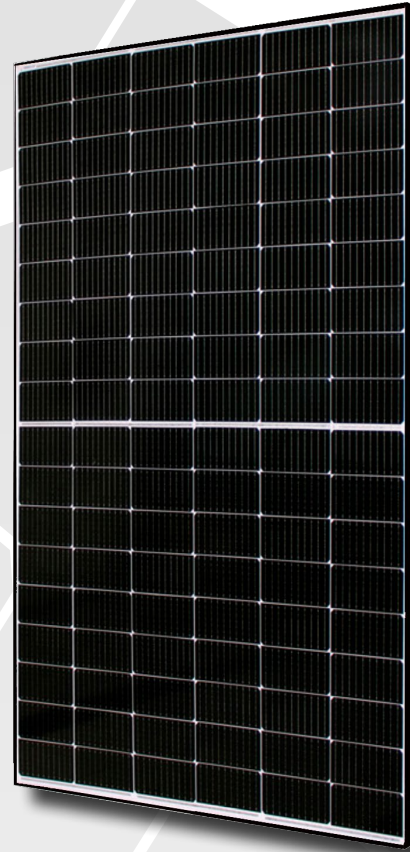
5400 PA
Mechanical Load

182x91_{mm}
Cell Size

22.02%
efficiency

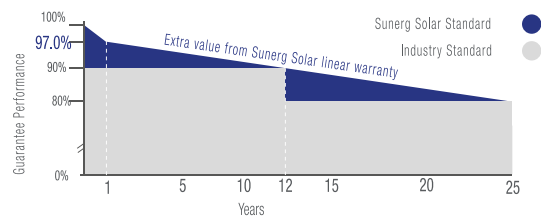
15 years
product warranty

25 years
linear warranty



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



- look warranty terms -

CORRESPOND TO

| UNI9177 | PV CYCLE | CE |

UNI EN ISO 9001:2008
UNI EN ISO 14001:2004

UNI EN BS OHSAS 18001:2007

| Quality management system

| Standards for environmental management system

| International standards for occupational health and safety

ELECTRICAL DATA (STC)		XMHCTO420BFDG(B)+H	XMHCTO425BFDG(B)+H	XMHCTO430BFDG(B)+H
Open circuit Voltage	(Voc)	37.89 V	38.07 V	38.25 V
Voltage a Pmax.	(Vmp)	31.36 V	31.55 V	31.73 V
Short-circuit current	(Isc)	14.15 A	14.67 A	14.31 A
Current at Pmax.	(Imp)	13.40 A	13.48 A	13.56 A
Nominal Peak Power (Pmax)		420 Wp	425 Wp	430 Wp
Module Efficiency		21.51%	21.76%	22.02%
Power output tolerance			-0/+5 W	
Maximum voltage			1500 V	
Maximum series fuse rating			30 A	
Limiting reverse current			25 A	
Operating Temperature			- 40°C to 85°C	
Irradiance 1000 w/m ² , temperature 25°C, AM= 1.5		Tolerance electric measurement and Power Output ±3%		

ELECTRICAL PARAMETERS AT NOMINAL MODULE OPERATING TEMPERATURE (NMOT)

Peak Power	(Pmax)	318.0 W	321.8 W	325.6 W
Open Circuit Voltage	(Voc)	36.00 V	36.20 V	36.30 V
Short Circuit Current	(Isc)	11.43 A	11.50 A	11.56 A
MPP Voltage	(Vmp)	29.80 V	30.00 V	30.20 V
MPP Current	(Imp)	10.67 A	10.73 A	10.78 A

* Irradiance 800 w/m², ambient temperature 20°C, WS= 1 m/s

ELECTRICAL PARAMETERS AT BIFACIAL NAME PLATE IRRADIANCE (BNPI)

Peak Power	(Pmax)	462 W	468 W	473 W
Open Circuit Voltage	(Voc)	37.89 V	38.07 V	38.25 V
Short Circuit Current	(Isc)	15.68 A	16.25 A	15.86 A
MPP Voltage	(Vmp)	31.36 V	31.55 V	31.73 V
MPP Current	(Imp)	14.73 A	14.83 A	14.91 A

* Irradiance 1000 w/m², 135W/m²e 20°C, WS= 1 m/s

TEMPERATURE COEFFICIENT

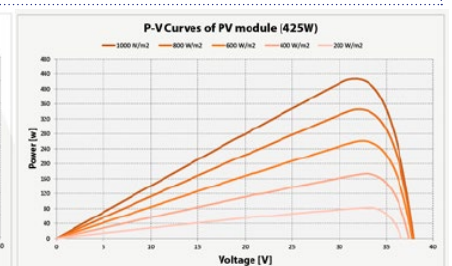
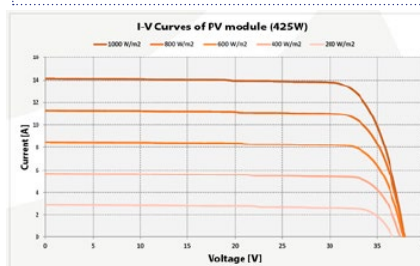
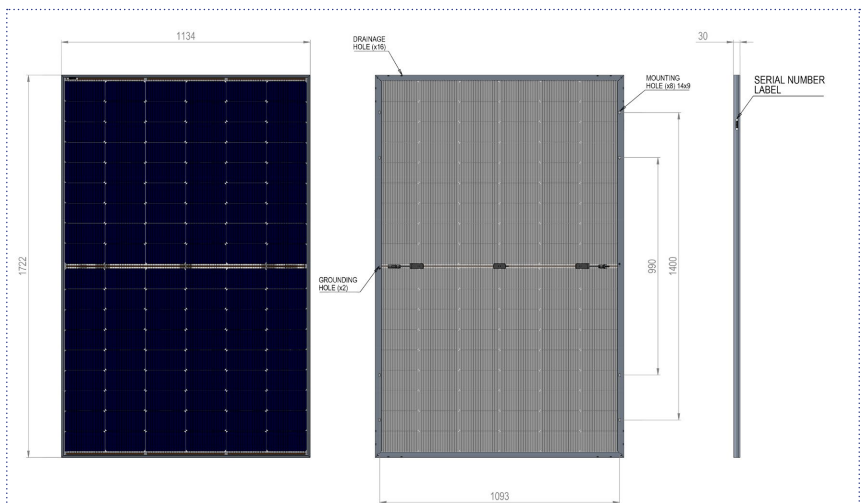
Pmax Temperature Coefficient	-0.289% / °C
Voc Temperature Coefficient	-0.244% / °C
Isc Temperature Coefficient	0.045% / °C

MECHANICAL DATA

Maximum Load	5400 Pa
Dimensions (mm)	1722 x 1134 x 30
Weight (Kg)	24.3
Solar cells type	N type Mono
No. solar cells	108 (6x18)
Dim. solar cells	182x91mm +/-1mm

GENERAL INFORMATION

Front Glass	Tempered solar glass 2.0 mm
Back Glass	Semi-tempered glass 2.0 mm
Frame	Anodized aluminum alloy, with twin-wall profile and drainage holes
Junction Box	IP68 Rated with 3 Bypass diodes
Output Cable	4.0mm², 1100mm length, MC4 compatible connectors



PACKING CONFIGURATION

Module per Pallet	36 pcs.
Modules per container 40'HQ	936 pcs.

Sunerg Solar S.r.l. reserves the right to make changes to the technical data of the product without prior notice. The technical details of the form, although included with the utmost care, may contain errors or inaccuracies not attributable to Sunerg Solar S.r.l.