



X-HALF CUT N-TYPE serie TOPCon

415/440_{Wp}

Power

TOPCon

Class 1

Fire reaction

Bifacial

Double

glass

22.53%

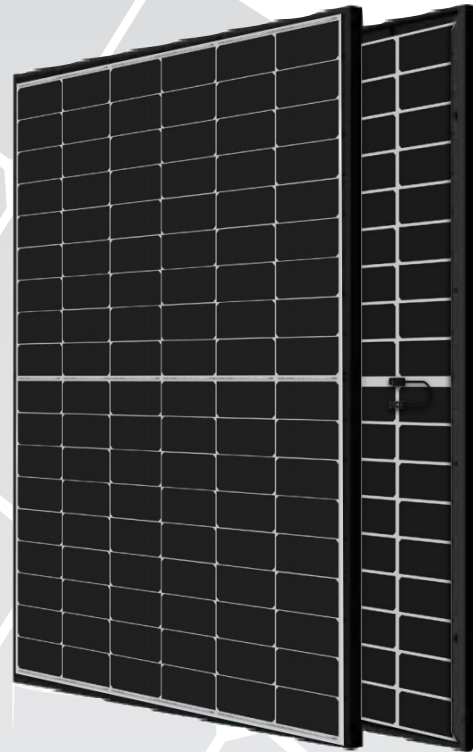
efficiency

-0.290%/°C

Temperature coefficient

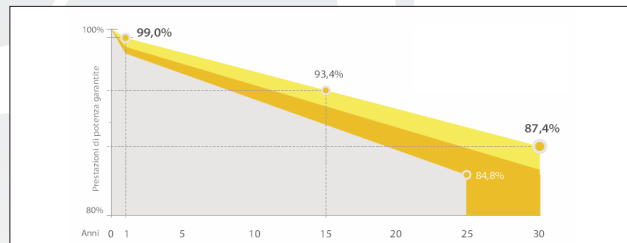
-0.40%

annual degradation



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 -

15anni

Garanzia prodotto

30anni

Garanzia lineare

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)		XMHC415BFDGKL- BW+H	XMHC420BFDGKL- BW+H	XMHC425BFDGKL- BW+H	XMHC430BFDGKL- BW+H	XMHC435BFDGKL- BW+H	XMHC440BFDGKL- BW+H
Open circuit Voltage	(Voc)	37.92 V	38.11 V	38.30 V	38.49 V	38.68 V	38.87 V
Voltage a Pmax.	(Vmp)	31.32 V	31.51 V	31.70 V	31.88 V	32.06 V	32.24 V
Short-circuit current	(Isc)	13.99 A	14.07 A	14.15 A	14.23 A	14.31 A	14.39 A
Current at Pmax.	(Imp)	13.25 A	13.33 A	13.41 A	13.49 A	13.57 A	13.65 A
Nominal Peak Power (Pmax)		415 Wp	420 Wp	425 Wp	430 Wp	435 Wp	440 Wp
Module Efficiency		21.25%	21.51%	21.76%	22.02%	22.28%	22.53%
Power output tolerance		0 ~ +5 W					
Maximum voltage		1500 V					
Maximum series fuse rating		25 A					
Operating Temperature		- 40°C ~ 85°C					

* STC (Standard test conditions)

Tolerance electric measurement ±3%

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

ELECTRICAL CHARACTERISTICS WITH 10% POWER GAIN AT THE REAR

Peak Power (Pmax/W)	456	462	468	473	479	484
Open Circuit Voltage (Voc/V)	37.92	38.11	38.30	38.49	38.68	38.87
Short Circuit Current(Isc/A)	15.39	15.48	15.57	15.65	15.74	15.83
MPP Voltage (Vmp/V)	31.32	31.51	31.70	31.88	32.06	32.24
MPP Current (Imp/A)	14.58	14.66	14.75	14.84	14.93	15.02

TEMPERATURE COEFFICIENT

NOCT	45°C±2°C
Pmax Temperature Coefficient	-0.290%/ °C
Voc Temperature Coefficient	-0.250%/ °C
Isc Temperature Coefficient	0.045% / °C

CARATTERISTICHE MECCANICHE

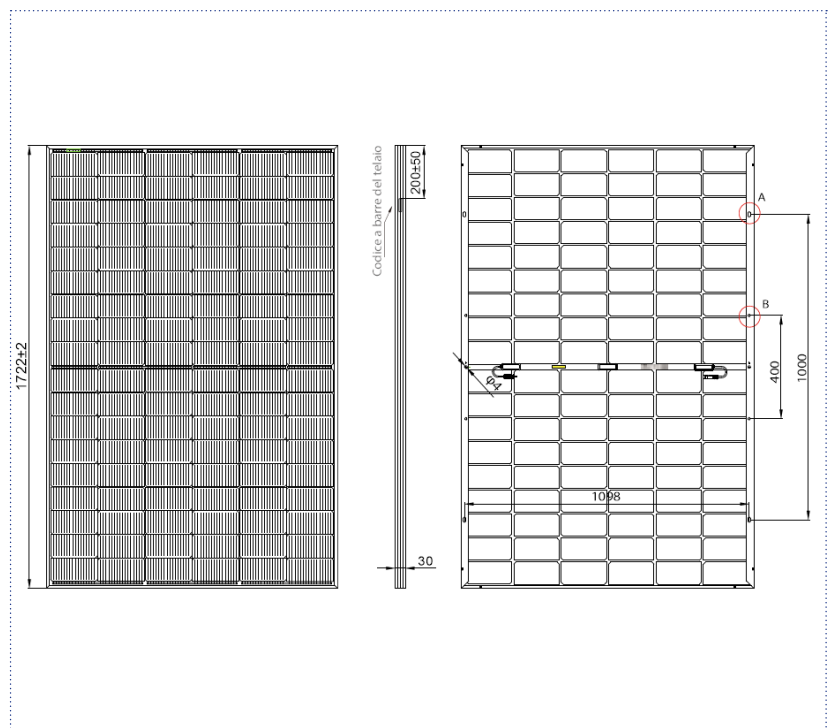
Maximum Load	5400 Pa / 2400 Pa
Dimensions (mm)	1722 x 1134 x 30
Weight (Kg)	24
Solar cells type	N type Mono
No. solar cells	108

PACKING CONFIGURATION

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

GENERAL INFORMATION

Glass	2 mm high transmission, antireflection coating
Frame	Anodized aluminum alloy
Juntion Box	IP68, 3 Bypass diodes
Output Cable	4.0mm² wire lenght 1200mm



Sunerg Solar S.r.l. si riserva il diritto di apportare modifiche ai dati tecnici del prodotto senza preavviso.
I dati tecnici del modulo, nonostante siano inseriti con la massima attenzione, possono contenere errori o imprecisioni non imputabili a Sunerg Solar S.r.l.