



Product Warranty



Linear Output Warranty

# X-CHROS XL Monocrystalline PERC High Efficiency SHINGLED

430 - 435 - 440 - 445 Wp



Shingled solar cells technology



Positive Tolerance



High Voltage 1500 Vdc



Low system cost



Safety and reliability



21.4 % max efficiency

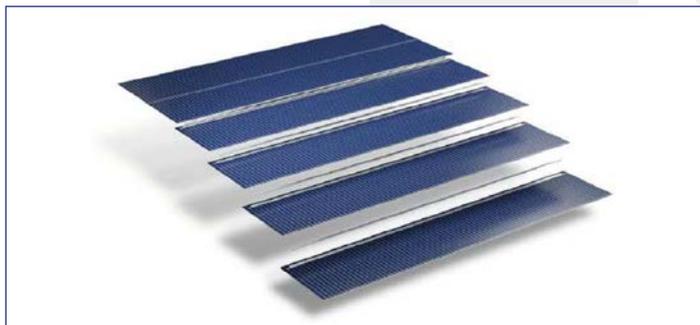


Uniform and beautiful appearance

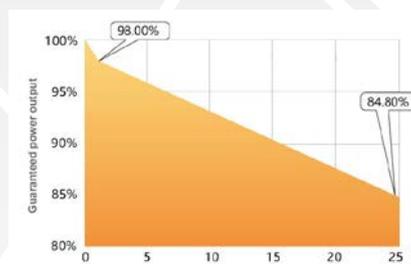


Low System Cost

The new photovoltaic modules X-CHROS XL is one of a wide range of products made by Sunerg and It is manufactured according to IEC 61215, IEC 61730 standard and CE. PERC Shingled Technology provides ultra -high efficiency with better performance in low irradiation. Maximizes installation capacity in limited space and lower tempertaure operation.



LINEAR WARRANTY



- look warranty terms -

CORRESPOND TO

| UNI9177 | PV CYCLE | CE |

UNI EN ISO 9001:2008

| Quality management system

UNI EN ISO 14001:2004

| Standards for environmental management system

UNI EN BS OHSAS 18001:2007

| International standards for occupational health and safety

		XMCH92430QBW+HBF		XMCH92435QBW+HBF		XMCH92440QBW+HBF		XMCH92445QBW+HBF	
		STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Open circuit Voltage	(Voc)	43.5 V	41.5 V	43.60 V	41.60 V	43.70 V	41.70 V	43.80 V	41.80 V
Voltage a Pmax.	(Vmp)	36.1 V	34.4 V	36.20 V	34.50 V	36.30 V	34.60 V	36.40 V	34.70 V
Short-circuit current	(Isc)	12.68 A	10.23 A	12.79 A	10.32 A	12.90 A	10.41 A	13.01 A	10.50 A
Current at Pmax.	(Imp)	11.92 A	9.41 A	12.02 A	9.49 A	12.13 A	9.57 A	12.23 A	9.66 A
Peak Power (Pmax) Tolerance		430 Wp	324 Wp	435 Wp	328 Wp	440 Wp	331 Wp	445 Wp	335 Wp
Module Efficiency		20.7%		20.90%		21.10%		21.40%	
Maximum voltage		1500 V DC							
Maximum series fuse rating		25A							
Operating Temperature		-40°C - +85°C							

Tolerance electric measurement ±3%

**\* STC** (Standard test conditions)

Irradiance 1000 w/m<sup>2</sup>, module temperature 25°C, AM= 1.5

**\* NMOT** (Nominal module operating temperature)

Irradiance 800 w/m<sup>2</sup>, temperature 20°C, wind speed 1m/s

**TEMPERATURE COEFFICIENT**

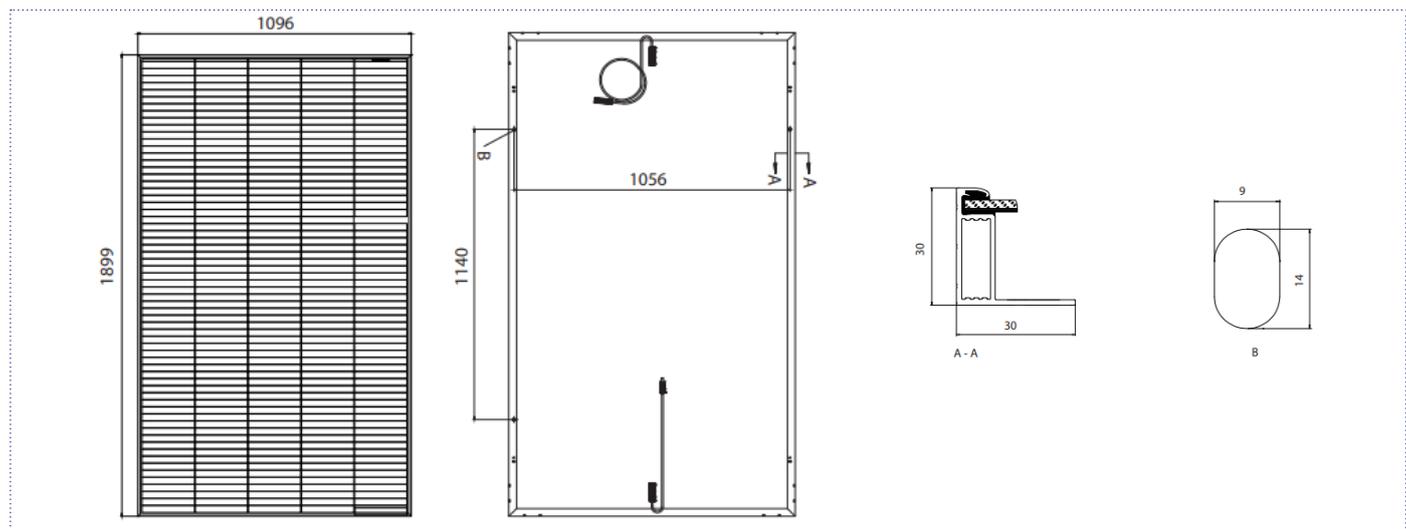
NMOT	42.3°C±2°C
Pmax Temperature Coefficient	-0.34%/ °C
Voc Temperature Coefficient	-0.27%/ °C
Isc Temperature Coefficient	0.04% / °C

**MECHANICAL CHARACTERISTIC**

Max. surface load capacity (Pa)	front 5400 / back 2400
Dimensions (mm)	1899 x 1096 x 30
Weight (Kg)	21.8
Encapsulation	EVA
Cells	320 cells (64*5)
Backsheet	High weatherability backsheet

**CONFIGURAZIONE DEL PAKAGING**

Moduli a pallet	36
Moduli per Container	864



**GENERAL INFORMATION**

Glass	tempered glass, 3.2mm
Farme	Anodized Aluminum alloy
Junction Box	IP68, 2 Bypass diodes
Output Cable - connectors	4.0mm <sup>2</sup> , +1300mm / -1300mm

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