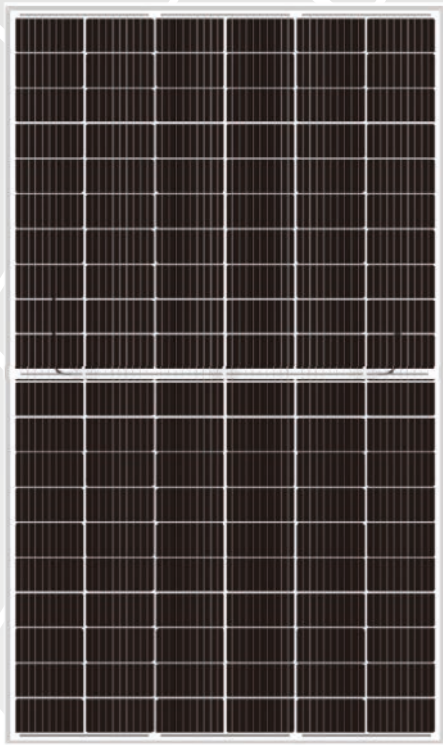




X-HALF CUT Monocrystalline

440 - 445 - 450 - 455 - 460 Wp



120 Half-cut cells Multi Busbar



High Voltage 1500 Vdc



Fire reaction class 1



0/+5W Power tolerance



Max efficiency 21,3%



Extremely low Temp. Coefficient -0.35%/ °C



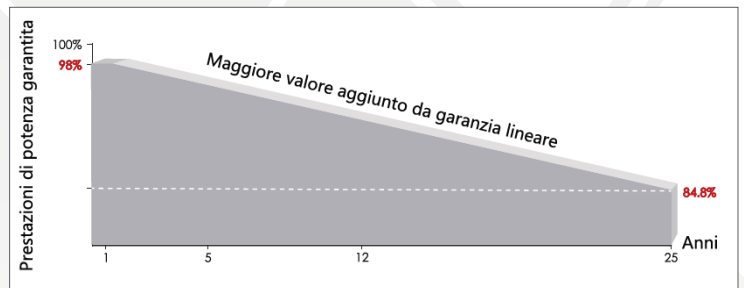
Product Warranty



Linear Warranty

X-HALF CUT is one of a wide range of SUNERG's product. It is manufactured according to IEC 61215, IEC 61730 and CE standards. The innovative multi busbar half-cells guarantee high power per unit, reduce the risk of micro-crack, mismatch and shadow loss, so increasing the reliability of the module.

LINEAR WARRANTY



- look warranty terms -

CORRESPOND TO

IEC 61215 | IEC 61730 | PV CYCLE | CE |

UNI EN ISO 9001:2008
UNI EN ISO 14001:2004
UNI EN ISO 45001:2018

| Quality management system
| Standards for environmental management system
| International standards for occupational health and safety

ELECTRICAL DATA (STC)

		XMHC120440K+H		XMHC120445K+H		XMHC120450K+H		XMHC120455K+H		XMHC120460K+H	
		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Open circuit Voltage	(Voc)	41.18 V	38.71 V	41.27 V	38.79 V	41.46 V	38.97 V	41.65 V	39.15 V	41.85 V	39.34 V
Voltage a Pmax.	(Vmp)	34.39 V	31.98 V	34.46 V	32.05 V	34.62 V	32.19 V	34.78 V	32.35 V	34.95 V	32.52 V
Short-circuit current	(Isc)	13.37 A	10.83 A	13.42 A	10.88 A	13.47 A	10.91 A	13.54 A	10.97 A	13.59 A	11.01 A
Current at Pmax.	(Imp)	12.80 A	10.26 A	12.92 A	10.36 A	13.01 A	10.41 A	13.09 A	10.48 A	13.17 A	10.55 A
Peak Power (Pmax) Tolerance 0/+5%		440 Wp	328 Wp	445 Wp	332 Wp	450 Wp	335 Wp	455 Wp	339 Wp	460 Wp	343 Wp
Module Efficiency		20.40 %		20.60 %		20.90 %		21.10 %		21.30 %	
Maximum voltage		1500 V DC									
Maximum series fuse rating		25 A									
Operating Temperature		-40°C - +85°C									

Tolerance electric measurement ±3%

*** STC** (Standard test conditions)

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

*** NOCT** (Nominal Operating Cell Temperature)

 Irradiance 800 W/m², temperature 20°C, wind speed 1m/s

TEMPERATURE COEFFICIENT

NOCT	45 ± 2 °C
Pmax Temperature Coefficient	-0.35% / °C
Voc Temperature Coefficient	-0.28% / °C
Isc Temperature Coefficient	0.045% / °C

MECHANICAL CHARACTERISTIC

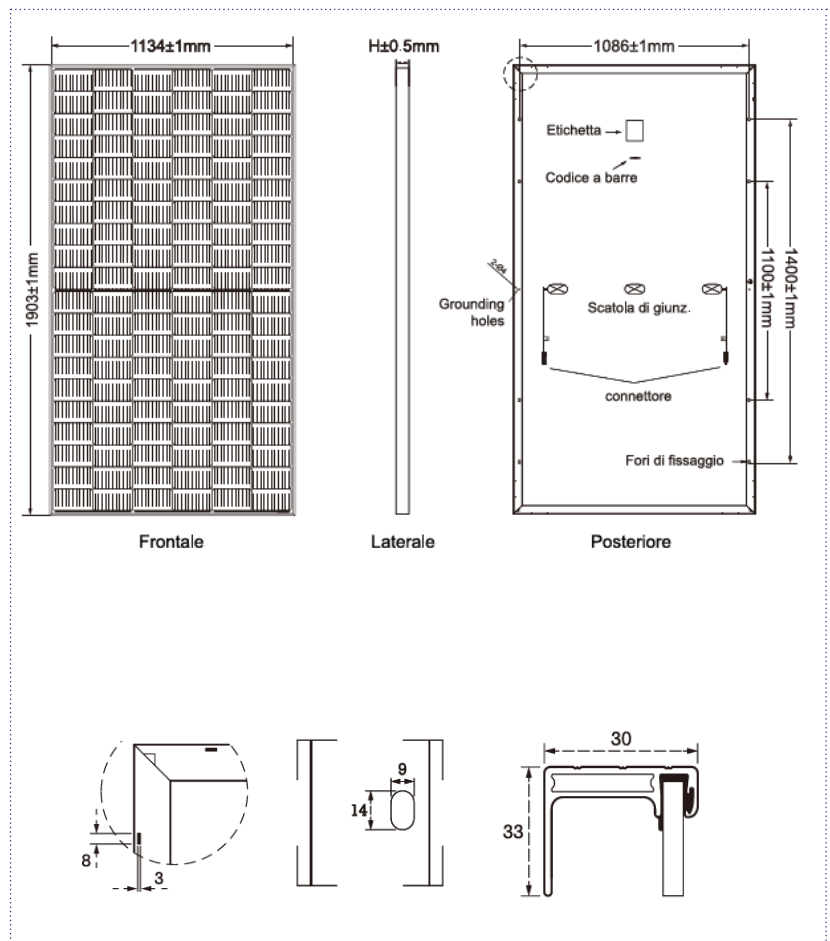
Dimensions (mm)	1903 x 1134 x 30
Weight (Kg)	24
Solar cells type	Mono 182x 91 mm
No. solar cells	120

PACKING CONFIGURATION

Module per Pallet	36 pcs.
Modules per container 40'HQ	864 pcs.

GENERAL INFORMATION

Glass	antireflex-coated, high transmission, tempered glass 3.2 mm
Frame	Anodized aluminum
Junction Box	IP68, 3 bypass diodes
Output Cable - Connectors	1000mm/4.0mm ²



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.