

# HALF CELL 4.0

The finest expression of process innovation

**TOPCon**

Cell technology

**24,5%**

Circuit efficiency\*

**30**

Years of warranty

 **PRISMA 4.0**

A unique construction model,  
8 times more resistant to hail.

**X-CORE<sup>2</sup>**

Engineered for endurance,  
reliable against any external stress

**UNICA.**

The only warranty that fully  
protects your investment

Prisma technology has been tested in collaboration with the University of Brescia, proving to be 8 times more resistant to hail and 3 times more resistant to static load compared to the market standard.

X-CORE<sup>2</sup> technology is protected by an industrial invention patent application no. XXX, design, and three-dimensional trademark.

## PRODUCT DESIGN

Configuration	Glass - Polymer
Color	Silver frame / White backsheet
Cell technology	TOPCon
Number of cells	108 cells
Layout ratio	0,227 kWp/m <sup>2</sup>
Number of bus bars	16 Bus Bar
Dimension	1134 mm x 1722 mm
Frame thickness	30 mm
Weight	24 Kg
Cable length	+1000 mm / - 1000 mm
Snow load resistance	750 Kg/m <sup>2</sup>
Hail resistance	HW5 (Ø45mm, 110Km/h)

## FRONT GLASS

Glass thickness	4,0 mm
Glass composition	low-iron tempered glass
Glass type	internal prism
Nanotechnological treatment	ARC (Anti-reflecting-coating)
Solar transmittance	≥ 93,8 %

## ELECTRICAL CHARACTERISTICS STC\*\*

	Pmpp (Wp)	Vmpp (v)	Ipp (A)	Voc (V)	Isc (A)	Prod. eff. (%)	Circuit eff. (%)
<b>TRS 440-54M-H8N HALF CELL X-CORE<sup>2</sup></b>	440 Wp	32,29 v	13,63 A	38,86 V	14,42 A	22,5%	24,5%

## TEMPERATURE COEFFICIENTS

	Pmpp coefficient	Voc coefficient	Isc coefficient	NOCT
<b>TRS 440-54M-H8N HALF CELL X-CORE<sup>2</sup></b>	-0,30 % / °C	-0,25 V / °C	-0,046 % / °C	45° C ± 2° C

## PRODUCT CERTIFICATIONS

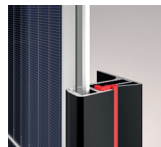
IEC 61215 - 2:2017 (ed.II)	KIWA
IEC 61730 - 2:2018 (ed.II)	KIWA
PID / Salt mist / Ammonia resistance	KIWA
Fire reaction: Class: 1(UNI 917A)	Istituto Giordano
PRISMA 4.0 technology	Università degli Studi di Brescia

## WARRANTIES

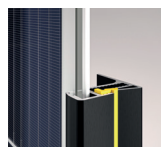
Manufacturing defects	30 years
Linear performance	30 years
<b>UNICA WARRANTIES***</b>	10 years

## POLYMERIC INSERT

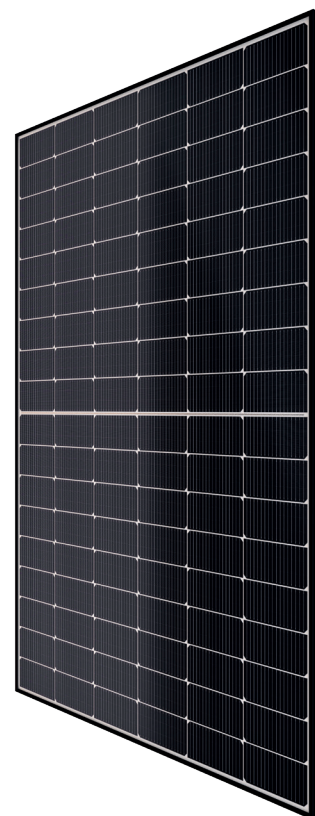
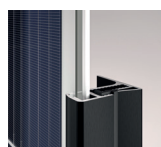
### BOLD RED



### AUTHENTIC YELLOW



### ELEGANT BLACK



## FRONT ENCAPSULANT

Polymer composition	POE (Polyolefin elastomer)
Polymer density	430 gr/m <sup>2</sup>

## COMPANY CERTIFICATIONS

ISO 9001:2015 Quality	KIWA
ISO 14001:2015 Environment	KIWA
ISO 45001:2018 Safety	KIWA
Factory Inspection Attestation Photovoltaic (PV) Panels ****	KIWA

## NOTE

\*We define all our products through circuit efficiency, an index we developed to relate the maximum cell efficiency to the photovoltaic panel's size, in order to achieve the best thermal performance.

\*\*STC (standard test conditions) - 1000Watt/m<sup>2</sup>, AM 1.5, 25° C

\*\*\*Warranty reserved for X-CORE<sup>2</sup> technology, covering various accidental events such as hail and walkability, in addition to the labor costs required for the possible replacement of defective products.

\*\*\*\* Factory inspection is not available for all products. Please contact the sales department prior to purchase.

Technical specifications are subject to continuous updates and may vary at any time without prior notice. Please check the warranty conditions and validity directly with the company at the time of purchase.

**PRODUCT DESIGN**

<b>Configuration</b>	Glass - Polymer
<b>Color</b>	Silver frame / White backsheet
<b>Cell technology</b>	TOPCon
<b>Number of cells</b>	120 cells
<b>Layout ratio</b>	0,225 kWp/m <sup>2</sup>
<b>Number of bus bars</b>	16 Bus Bar
<b>Dimension</b>	1134 mm x 1909 mm
<b>Frame thickness</b>	30 mm
<b>Weight</b>	29 Kg
<b>Cable length</b>	+1200 mm / - 1200 mm
<b>Snow load resistance</b>	750 Kg/m <sup>2</sup>
<b>Hail resistance</b>	HW5 (Ø45mm, 110Km/h)

**FRONT GLASS**

<b>Glass thickness</b>	4,0 mm
<b>Glass composition</b>	low-iron tempered glass
<b>Glass type</b>	internal prism
<b>Nanotechnological treatment</b>	ARC (Anti-reflecting-coating)
<b>Solar transmittance</b>	≥ 93,8 %

**ELECTRICAL CHARACTERISTICS STC\*\***

	Pmpp (Wp)	Vmpp (v)	Ipp (A)	Voc (V)	Isc (A)	Prod. eff. (%)	Circuit eff. (%)
<b>TRS 485-60M-H8N HALF CELL X-CORE<sup>2</sup></b>	485 Wp	35,78 v	13,56 A	43,09 V	14,34 A	22,5%	24,5%

**TEMPERATURE COEFFICIENTS**

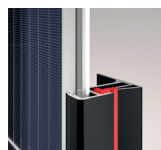
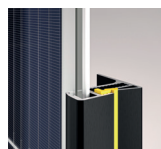
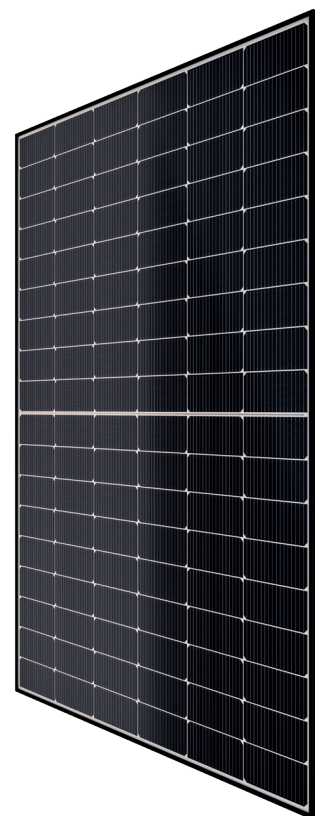
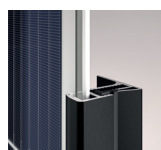
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**CERTIFICAZIONI DI PRODOTTO**

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<b>IEC 61730 - 2:2018 (ed.II)</b>	KIWA
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<b>Fire reaction: Class: 1(UNI 917A)</b>	Istituto Giordano
<b>PRISMA 4.0 technology</b>	Università degli Studi di Brescia

**WARRANTIES**

<b>Manufacturing defects</b>	30 years
<b>Linear performance</b>	30 years
<b>UNICA WARRANTIES***</b>	10 years

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**FRONT ENCAPSULANT**

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<b>Polymer density</b>	430 gr/m <sup>2</sup>

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