



# X-HALF CUT Top Con series

## Bifacial Dual Glass

**670/705<sub>Wp</sub>**  
Power

**22.70%**  
Efficiency

**2400Pa**  
wind load

**5400Pa**  
snow load

**-0.240%/°C**  
Temperatura coefficiente

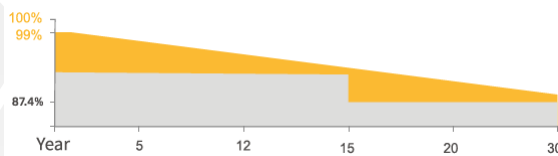
**15 years**  
Product warranty

**30 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

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)

		XMHCTE670BFD-GBW+H	XMHCTE675BFD-GBW+H	XMHCTE680BFD-GBW+H	XMHCTE685BFD-GBW+H	XMHCTE690BFD-GBW+H	XMHCTE695BFD-GBW+H	XMHCTE700BFD-GBW+H	XMHCTE705BFD-GBW+H
Open circuit Voltage	(Voc)	47.42 V ±3	47.66 V ±3	47.90 V ±3	48.14 V ±3	48.38 V ±3	48.62 V ±3	48.86 V ±3	49.10 V ±3
Voltage a Pmax.	(Vmp)	39.52 V	39.72 V	39.92 V	40.12 V	40.32 V	40.52 V	40.72 V	40.92 V
Short-circuit current	(Isc)	17.72 A ±3	17.76 A ±3	17.80 A ±3	17.84 A ±3	17.88 AV	17.93 A ±3	17.97 A ±3	18.00 A ±3
Current at Pmax.	(Imp)	16.96 A	17.00 A	17.04 A	17.08 A	17.12 A	17.16 A	17.20 A	17.23 A
Nominal Peak Power	(Pmax)	670 Wp	675 Wp	680 Wp	685 Wp	690 Wp	695 Wp	700 Wp	705 Wp
Module Efficiency		21.57%	21.73%	21.90%	22.06%	22.22%	22.38%	22.54%	22.705
Power output tolerance		0 ~ +3W							
Maximum voltage		1500 V DC							
Maximum series fuse rating		30 A							
Operating Temperature		-40°C ~ +85°C							

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

Tolerance electric measurement ±3%

### ELECTRICAL DATA (NMOT)

Peak Power	(Pmax)	508 Wp	512 Wp	516 Wp	520 Wp	523 Wp	527 Wp	531 Wp	535 Wp
Open Circuit Voltage	(Voc)	44.81 V C	45.04 V ±3	45.27 V ±3	45.49 V ±3	45.72 V ±3	45.95 V ±3	46.17 V ±3	46.40 V ±3
Short Circuit Current	(Isc)	14.12 A ±3	14.15 A ±3	14.18 A ±3	14.21 A ±3	14.25 A ±3	14.29 A ±3	14.32 A ±3	14.35A ±3
MPP Voltage	(Vmp)	37.18 V	37.37 V	37.55 V	37.74 V	37.93 V	38.12 V	38.31 V	38.50 V
MPP Current	(Imp)	13.65 A	13.68 A	13.71 A	13.74 A	13.78 A	13.81 A	13.84 A	13.87 A

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

### ELECTRICAL CHARACTERISTICS WITH 10% POWER GAIN AT THE REAR

Peak Power	(Pmax)	742 Wp	748 Wp	753 Wp	759 Wp	765 Wp	770 Wp	776 Wp	781 Wp
Open Circuit Voltage	(Voc)	47.42 V ±3	47.66 V ±3	47.90 V ±3	48.14 V ±3	48.38 V ±3	48.62 V ±3	48.86 V ±3	49.10 V ±3
Short Circuit Current	(Isc)	19.63 A ±3	19.68 A ±3	19.72 A ±3	19.77 A ±3	19.81 A ±3	19.87 A ±3	19.91 A ±3	19.94 A ±3
MPP Voltage	(Vmp)	39.52 V	39.72 V	39.92 V	40.12 V	40.32 V	40.52 V	40.72 V	40.92 V
MPP Current	(Imp)	18.79 A	18.84 A	18.88 A	18.92 A	18.97 A	19.01 A	19.06 A	19.09 A

10% Irradiance ratio (rear/front)

### TEMPERATURE COEFFICIENT

Nominal operating cell temepature	45 ± 2 °C
Pmax Temperature Coefficient	-0.240%/ °C
Voc Temperature Coefficient	-0.220%/ °C
Isc Temperature Coefficient	0.047% / °C

### MECHANICAL CHARACTERISTIC

Dimensions (mm)	2384 x 1303 x 30
Weight (Kg)	39.20
Solar cells type	N-Type mono 210x105 mm
No. solar cells	132 (12x11)

### PACKING CONFIGURATION

Module per Pallet	18 pcs.
Modules per contain-	666 pcs.

### GENERAL INFORMATION

Glass	2.0 mm AR coating tempered glass, 2.0 mm glazed glass
Frame	silver, Anodized aluminum alloy
Connector	MC4
Output Cable - Connectors	4.0mm <sup>2</sup> , cable 35 cm
Junction box	IP68 3 diodes

