

695 / 700 / 705 / 710 / 715 / 720 Watts

# **TOPCon Series**

## **Overview**

N-type solar cells (TOPCon) are seen as the technology of the future. N-type (TopCon) technology guarantees high performance and low degradation of the PV module, substantially improving the results and the yield in the time. "TOPCon" Series module is the ideal solution for end users who want a Quality PV & reliable product over time and a fast turnaround on their investments.







Guaranteed mechanical resistance to severe weather conditions

Positive Tolerance

100 % electroluminescence tested











# **Key benefits**



Zero Light Induced Degradation



0% Front Grid Shading Loss



Low LCOE

FRENCH **BRAND** 



25 Years Limited Product Warranty



LowPmax Temperature Coefficient



Higher Light Conversion

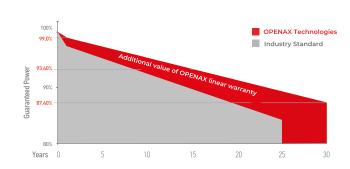
# **Tests, Certifications and Guarantees**

# Standard testsIEC 61215, IEC 61730Factory quality testingISO 9001: 2015. ISO 14001: 2015CertificationsConformity to CE. PV CYCLE<br/>Fire safety Class C according to UL790Wind and Snow<br/>Loads TestingModule certified to withstand extreme<br/>wind [2400 Pascal] and snow loads<br/>[5400 Pascal)Withstanding HailMaximum Diameter of 25mm with impact<br/>speed of 23m/s

Power Tolerance Guaranteed +0/+5W [STC condition)

O Linear power output guarantee over 25 years

# Linear performance guarantees



Production		Power	I	Power	
1st vear	≥ 99.0%		≤ 0.40%		≥ 87.40%
ibe your	'	2 and 25 years	1	at 25 years	



# BIFACIAL N-TYPE MONO CRYSTALLINE HALF-CUT MODULE- DOUBLE GLASS

OX-xxx-M10TCBVB132-01(xxx=695-720)

# **Electrical performance**

POWER CLASS			69	95		700	7	05		710		715		720
Measurement condition			STC (2)	NMOT(3)	STC	имот	STC	NMOT	STC	NMOT	STC	NMOT	STC	имот
Maximum power	Pmax	[Wp]	695	531	700	534	705	540	710	543	715	547	720	551
Voltage at Pmax	Vmp	[V]	40,30	37,90	40,50	38,00	40,70	38,30	40,90	38,50	41,10	38,70	41,30	38,80
Current at Pmax	Imp	[A]	17,25	14,00	17,29	14,04	17,33	14,08	17,36	14,12	17,40	14,14	17,44	14,19
Open Circuit Voltage	Voc	[V]	48,30	45,90	48,60	46,10	48,80	46,30	49,00	46,50	49,20	46,70	49,40	46,90
Short circuit current	Isc	[A]	18,28	14,72	18,32	14,76	18,36	14,80	18,40	14,83	18,44	14,86	18,49	14,90
Surface efficiency	Eff	[%]	22,3	7		22,53	22,	70	:	22,86		23,02		23,18
Max. Reverse Current	Ir	[A]						30						
System voltage max	Vsys	[V]						1500V C	D (IEC)					

# Bi Facial Output (4)

POWER CLASS			695		700		705		710		715		720	
			Pmax (Wp)	Eff (%)										
	5	(%)	729,8	27,0%	735,0	27,2%	740,3	27,4%	745,5	27,6%	750,8	27,8%	756,0	28,0%
Power	10	(%)	764,5	28,3%	770,0	28,5%	775,5	28,7%	781,0	28,9%	786,5	29,1%	792,0	29,3%
with Backside Gain	15	(%)	799,3	29,6%	805,0	29,8%	810,8	30,0%	816,5	30,2%	822,3	30,4%	828,0	30,6%
	20	(%)	834,0	30,8%	840,0	31,1%	846,0	31,3%	852,0	31,5%	858,0	31,7%	864,0	32,0%
	25	(%)	868,8	32,1%	875,0	32,4%	881,3	32,6%	887,5	32,8%	893,8	33,1%	900,0	33,3%
	30	(%)	903,5	33,4%	910,0	33,7%	916,5	33,9%	923,0	34,1%	929,5	34,4%	936,0	34,6%

(4) Bifaciality Factor > 90% - Back-side power gain depends upom the specific projet albedo - Efficiency is according to the module

## Mechanical characteristics

**Dimensions** 2384mm x 1303 x 33mm

Weight 37 Kg

Cells N-type 210mm x 105mm (2x66 Pcs) - G12 Front panel 2.0mm Tempered and low iron glass + ARC Rear panel 2.0mm Tempered and low iron glass

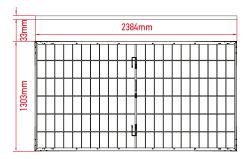
Frame Anodized aluminum alloy Junction box

IP68 - 3 Bypass Diodes Connectors MC4 Compatible

Cables Cross-section: 4mm² - Length: 350mm

or can be customized

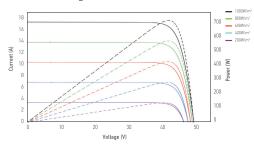
# **Dimensions**



OPENAX assumes no responsibility for any typographical, formatting, misinformation

## I-V curve

Power loss in low-light environments: 200W/m is less than 3%.



# Thermal coefficients

Coeff./ Pmax	-0.29%/°C
Coeff./ Voc	-0.24%/°C
Coeff./ Isc	+0.04%/°C
Operating temperature	-40~+85 °C
Nominal module operating temperature (NMOT)	42 ± 2 °C

## **Packaging configuration**

Container	40' (HC)
Pieces per Pallet	33
Pallets per Container	18
Pieces per Container	(33+33)x9= 594 pcs

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<sup>(1)</sup> Measurement tolerances: Pmax (± 3%), Isc & Voc (± 3%) - Power classification 0/+5W (2) STC (Standard Test Conditions): Irrandiance 1000W/m2 Cell Temperature 25°C, AM 1.5 (3) NMOT (Nominal Module Operating Temperature): Irrandiance 800W/m2 Ambient Temperature 20°C, AM