

# N-TYPE MONOCRYSTALLINE HALF-CUT MODULE -BACKCONTACT TECHNOLOGY

590 / 595 / 600 / 605 / 610 Watts

### Half-Cut BackContact Series

#### Overview

BackContact modules provide numerous benefits to customers seeking a high-quality product with exceptional performance and aesthetic. captivating design. The "BackContact" module utilizes N-Type cell technology in conjunction with a rear connection method known as BackContact. As a result, there is 0% front grid shadow loss. which increases the PV module's yield. Due to reduced shading on the front of the cell. the module maximizes total cell area realizing higher efficiency and resulting in a fast return on investment.







Guaranteed mechanical resistance to severe weather conditions

Positive Tolerance

100 % electroluminescence









FRENCH **BRAND** 



## **Key benefits**



Zero Light Induced Degradation



0% Front Grid Shading Lass



Low LCOE



30 Years Limited **Product Warranty** 



Low Pmax Temperature Coefficient



Higher Light Conversion

# **Tests, Certifications and Guarantees**

Standard tests	IEC 61215, IEC 61730
Factory quality testing	ISO 9001: 2015. ISO 14001: 2015
Certifications	Conformity to CE. PV CYCLE Fire safety Class C according to UL790
Wind and Snow Loads Testing	Module certified to withstand extreme wind [2400 Pascal] and snow loads [5400 Pascal

IEC C101E IEC C1970

Maximum Diameter of 25 mm with impact Withstanding Hail

speed of 23 m/s

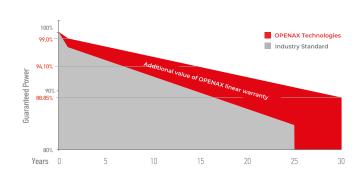
Guaranteed +0/+5W [STC condition) **Power Tolerance** 

Warranties ⊙ 30-year limited product warranty

> of the nominal performance

over 30 years

#### Linear performance guarantees



Power Power Production ≥ 99.0% between 2 and 25 years ≥ 88.85%



# N-TYPE MONOCRYSTALLINE HALF-CUT MODULE - BACKCONTACT TECHNOLOGY

OX-xxx-G10BB108-01 (xxx=590-610)

### **Electrical performance**

POWER CLASS (1)			5	90	5	95	6	00	60	)5	610	
Measurement condition			STC (2)	NMOT <sup>(3)</sup>	STC	NMOT	STC	NMOT	STC	NMOT	STC	имот
Maximum power	Pmax	(Wp]	590	445	595	448	600	452	605	456	610	460
Voltage at Pmax	Vmp	[V]	45,01	42,53	45,11	42,63	45,21	42,72	45,31	42,82	45,41	42,91
Current at Pmax	Imp	[A]	13,11	10,45	13,19	10,52	13,27	10,58	13,35	10,65	13,43	10,71
Open Circuit Voltage	Voc	[V]	53,20	50,27	53,30	50,37	53,40	50,46	53,50	50,56	53,60	50,65
Short circuit current	Isc	[A]	13,79	11,15	13,85	11,20	13,91	11,25	13,97	11,30	14,03	11,35
Surface efficiency	Eff	[%]	22	,8	23	3,0	23	,2	23	,4	23	,6
Max. Reverse Current	Ir	[A]					2	5				
System voltage max	Vsys	[V]					1500V	CD (IEC)				

#### Mechanical characteristics

**Dimensions** 2278mm x 1134mm x 35mm

Weight 28.6 Kg (±3%)

**Cell Type** RC-N-Type - 182mm x 91mm (2 x 72 Pcs) - G10

3.2mm Tempered and low iron glass Front panel

+ Anti Reflective Coating

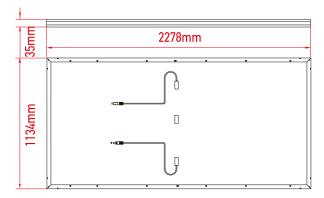
Rear panel Anti-aging film

Frame Anodized Aluminium Alloy

Junction box IP68, 3 Bypass diodes Connectors EVO2 compatible

**Output cable** 4mm<sup>2</sup> - Length: 350mm or can be customized

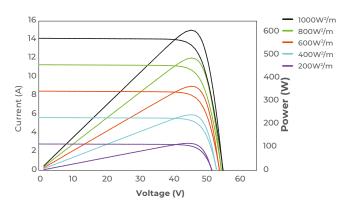
#### **Dimensions**



OPENAX assumes no responsibility for any typographical, formatting, misinformation misinformation, or any other errors or omissions contained herein.

#### I-V curve

Power loss in low-light environments: 200W/m<sup>2</sup> is less than 3%.



#### Thermal coefficients

Coeff./ Pmax	-0.29%/°C
Coeff./ Voc	-0.24%/°C
Coeff./ Isc	+0.05%/°C
Operating temperature	-40~+85 °C
Nominal module operating temperature (NMOT)	42 ± 2 °C

# **Packaging configuration**

Container	40' (HC)
Pieces per Pallet	31
Pallets per Container	20
Pieces per Container	(31 +31)x10=620 pcs

#### www.openax.com

<sup>(1)</sup> Measurement tolerances: Pmax (  $\pm$  3% ), Isc & Voc ( $\pm$  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