

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




675 / 680 / 685 / 690 / 700 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 tested
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#### Key benefits

 Zero Light Induced Degradation	 0% Front Grid Shading Loss	 Low LCOE
 30 Years Limited Product Warranty	 Low Pmax Temperature Coefficient	 Higher Light Conversion

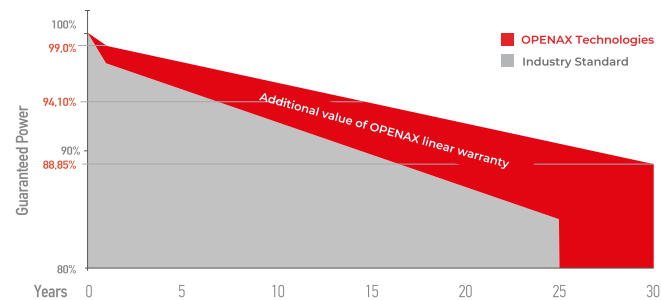
#### Tests, Certifications and Guarantees

<b>Standard tests</b>	IEC 61215, IEC 61730
<b>Factory quality testing</b>	ISO 9001: 2015, ISO 14001: 2015
<b>Certifications</b>	Conformity to CE, PV CYCLE Fire safety Class C according to UL790
<b>Wind and Snow Loads Testing</b>	Module certified to withstand extreme wind [2400 Pascal] and snow loads [5400 Pascal]
<b>Withstanding Hail</b>	Maximum Diameter of 25 mm with impact speed of 23 m/s

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

- Warranties**
- ✓ 30-year limited product warranty
  - ✓ 15-year manufacturer warranty on 94, 10% of the nominal performance
  - ✓ Linear power output guarantee over 30 years

#### Linear performance guarantees



Production 1st year	≥ 99.0%	Power between 2 and 25 years	≤ 0.35%	Power output at 25 years	≥ 88.85%
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OX-xxx-G10BVB156-01 (xxx=675-700)

### Electrical performance

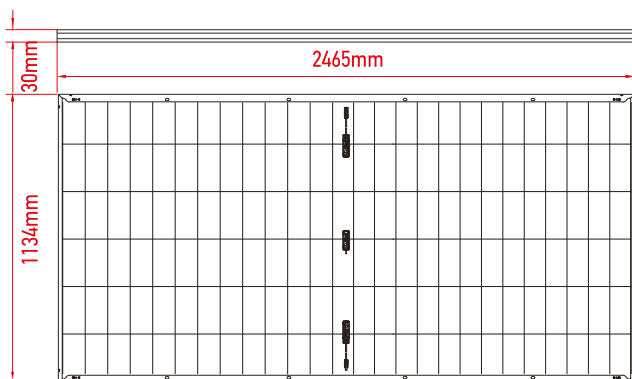
POWER CLASS <sup>(1)</sup>		675		680		685		690		695		700	
Measurement condition		STC <sup>(2)</sup>	NMOT <sup>(3)</sup>	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power	Pmax [Wp]	675	508	680	512	685	516	690	520	695	523	700	527
Voltage at Pmax	Vmp [V]	48,85	46,14	48,91	46,19	48,97	46,25	49,03	46,31	49,09	46,36	49,15	46,42
Current at Pmax	Imp [A]	13,82	11,03	13,91	11,1	13,99	11,17	14,08	11,23	14,16	11,30	14,25	11,37
Open Circuit Voltage	Voc [V]	58,98	55,70	59,04	55,75	59,10	55,81	59,16	55,87	59,22	55,92	59,28	55,98
Short circuit current	Isc [A]	14,49	11,72	14,56	11,78	14,63	11,83	14,70	11,89	14,77	11,95	14,84	12,00
Surface efficiency	Eff [%]	24,1		24,3		24,5		24,7		24,9		25,0	
Max. Reverse Current	Ir [A]	25											
System voltage max	Vsys [V]	1500V CD (IEC)											

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

### Mechanical characteristics

Dimensions	2465mm x 1134mm x 30mm
Weight	34.5 Kg (±3%)
Cells	N-Type 182mm x 94mm (2x78 Pcs) - G10
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	Compatible MC4
Cables	Cross-section: 4mm <sup>2</sup> - Length: 350mm or can be customized

### Dimensions



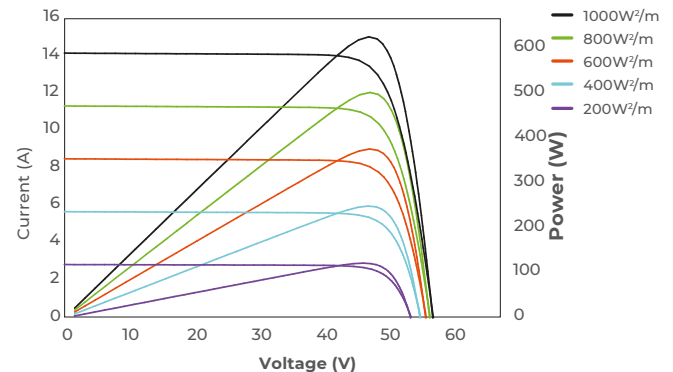
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### I-V curve

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



### Thermal coefficients

Coeff./ Pmax	-0.260% / °C
Coeff./ Voc	-0.220% / °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	37
Pallets per Container	16
Pieces per Container	(36+36)x8=592 pcs