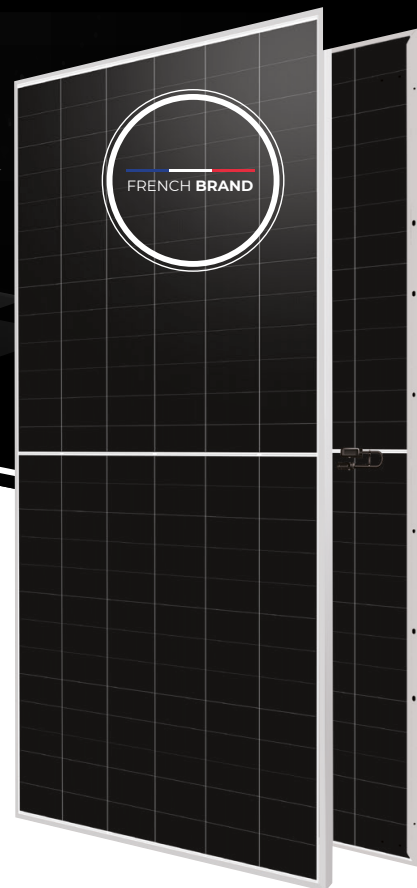


N-TYPE MONOCRYSTALLINE HALF-CUT MODULE -BACKCONTACT TECHNOLOGY - DOUBLE GLASS


655 / 660 / 665 / 670 / 675 / 680 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

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

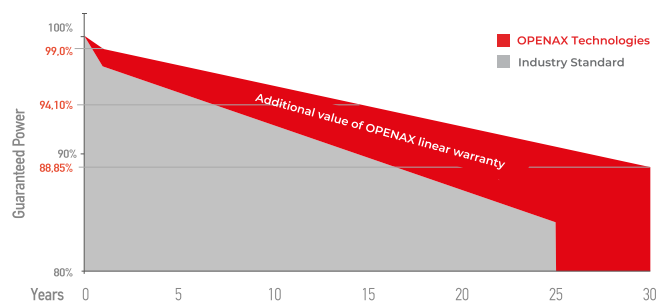
Tests, Certifications and Guarantees

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]
Withstanding Hail	Maximum Diameter of 25 mm with impact speed of 23 m/s

Power Tolerance	Guaranteed +0/+5W [STC condition]
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Warranties	<ul style="list-style-type: none"> ✓ 30-year limited product warranty ✓ 15-year manufacturer warranty on 94, 10% of the nominal performance ✓ Linear power output guarantee over 30 years
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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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N-TYPE MONOCRYSTALLINE HALF-CUT MODULE -BACK CONTACT TECHNOLOGY - DOUBLE GLASS

OX-xxx-G10BVB156-01 (xxx=655-680)

Electrical performance

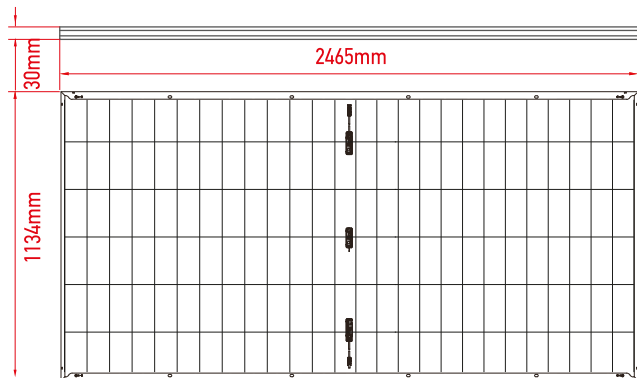
POWER CLASS ⁽¹⁾			655		660		665		670		675		680	
Measurement condition			STC ⁽²⁾	NMOT ⁽³⁾	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power	P _{max}	[Wp]	655	493	660	497	665	501	670	505	675	508	680	512
Voltage at P _{max}	V _{mp}	[V]	48,61	45,91	48,67	45,97	48,73	46,02	48,79	46,08	48,85	46,14	48,91	46,19
Current at P _{max}	I _{mp}	[A]	13,48	10,76	13,57	10,82	13,65	10,89	13,74	10,96	13,82	11,03	13,91	11,10
Open Circuit Voltage	V _{oc}	[V]	58,74	55,47	58,80	55,53	58,86	55,58	58,92	55,64	58,98	55,70	58,04	55,75
Short circuit current	I _{sc}	[A]	14,21	11,49	14,28	11,55	14,35	11,61	14,42	11,66	14,49	11,72	14,56	11,78
Surface efficiency	Eff	[%]	23,4		23,6		23,8		24,0		24,1		24,3	
Max. Reverse Current	I _r	[A]	25											
System voltage max	V _{sys}	[V]	1500V CD (IEC)											

(1) Measurement tolerances: P_{max} (± 3%), I_{sc} & V_{oc} (± 3%) - Power classification 0/+5W
(2) STC (Standard Test Conditions): Irradiance 1000W/m² Cell Temperature 25°C, AM 1.5
(3) NMOT (Nominal Module Operating Temperature): Irradiance 800W/m² Ambient Temperature 20°C, AM

Mechanical characteristics

Dimensions	2465mm x 1134 x 30mm
Weight	34.7 Kg (±3%)
Cells	N-Type 182mm x 91mm (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 ² - Length: 350mm or can be customized

Dimensions



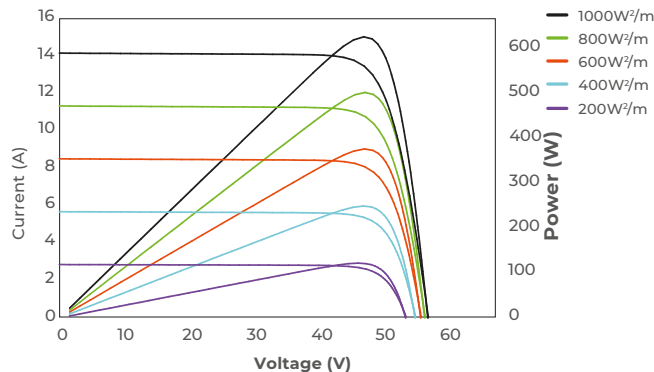
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Specifications and key features described in this data sheet may vary slightly and are not guaranteed. Due to continuous product innovation, research and improvement, OPENAX reserves the right to make adjustments to the information described herein at any time and without notice. Please always obtain the most recent version of the technical data sheet, which must be duly incorporated into the contract.

I-V curve

Power loss in low-light environments: 200W/m² is less than 3%.



Thermal coefficients

Coeff./ P _{max}	-0.260% / °C
Coeff./ V _{oc}	-0.220% / °C
Coeff./ I _{sc}	+0.05% / °C
Operating temperature	-40~+85 °C
Nominal module operating temperature (NMOT)	42 ± 2 °C

Packaging configuration

Container	40' (HC)
Pieces per Pallet	36
Pallets per Container	16
Pieces per Container	(36+36)x8=576 pcs