

N-TYPE MONOCRYSTALLINE HALF-CUT MODULE -BACKCONTACT TECHNOLOGY

470 / 475 / 480 / 485 / 490 / 495 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 Lass



Low LCOE

FRENCH **BRAND**



30 Years Limited Product Warranty



Low Pmax Temperature Coefficient



Higher Light Conversion

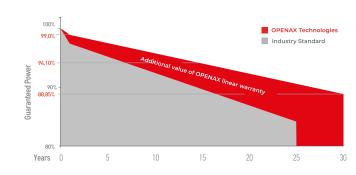
Tests, Certifications and Guarantees

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

⊙ 15-year manufacturer warranty on 94, 10% of the nominal performance

O Linear power output guarantee over 25 years

Linear performance guarantees



| Production | ≥ 99.0% | Dower | St year | ≥ 99.0% | Dower | ≤ 0.35% | Output | ≥ 88.85% | at 25 years |



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OX-xxx-G10BB108-01 (xxx=470-495)

Electrical performance

POWER CLASS (1)		4	70	4	75	48	30	48	35	49	0	49	95
Measurement condition		STC (2)	NMOT ⁽³⁾	STC	имот	STC	NMOT	STC	имот	STC	NMOT	STC	NMOT
Maximum power Pma	x [Wp]	470	356	475	360	480	364	485	367	490	371	495	375
Voltage at Pmax Vmp	[V]	34,00	32,26	34,10	32,35	34,20	32,45	34,30	32,54	34,40	32,64	34,50	32,73
Current at Pmax Imp	[A]	13,83	11,05	13,94	11,14	14,04	11,22	14,15	11,31	14,25	11,39	14,35	11,48
Open Circuit Voltage Voc	[V]	40,60	38,52	40,70	38,61	40,80	38,71	40,90	38,80	41,00	38,90	41,10	38,99
Short circuit current Isc	[A]	14,70	11,88	14,76	11,93	14,82	11,97	14,88	12,02	14,94	12,07	15,00	12,12
Surface efficiency Eff	[%]	23,	,5	23	,8	24	,0	24	,3	24	,5	24	,8
Max. Reverse Current Ir	[A]						25						
System voltage max Vsys	[V]	1500V CD (IEC)											

Mechanical characteristics

Dimensions 1762mm x 1134mm x 30mm

21.0 Kg Weight

Cells N-Type 182mm x 91mm (2x54 Pcs) - G10 3.2mm Tempered and low iron glass + ARC Front panel

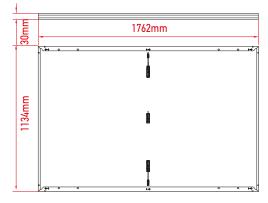
High water resistant backsheet (Black) Rear panel

Anodized aluminum alloy Frame IP68 - 3 Bypass Diodes Junction box Compatible MC - EVO2 Connectors

4mm² - Length: 1200mm or can be Cables

customized

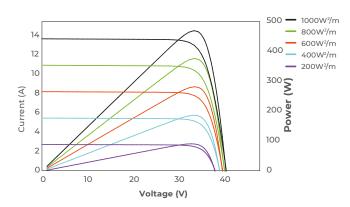
Dimensions



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I-V curve

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



Thermal coefficients

Coeff./ Pmax	-0.26% / °C
Coeff./ Voc	-0.22%/°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	26
Pieces per Container	(37+37)x13=962 pcs

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⁽¹⁾ 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