

N-TYPE MONOCRYSTALLINE HALF-CUT MODULE -BACK CONTACT TECHNOLOGY - TECHNOLOGY

440/445/450/455/460/465/470 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











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

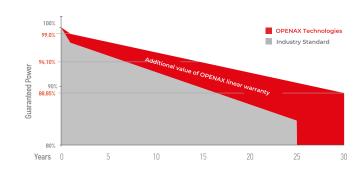
Tests, Certifications and Guarantees

Standard testsIEC 61215, IEC 61730Factory quality testingISO 9001: 2015. ISO 14001: 2015CertificationsConformity to CE. PV CYCLE
Fire safety Class C according to UL790Wind and Snow
Loads TestingModule certified to withstand extreme
wind [2400 Pascal] and snow loads [5400 Pascal]Withstanding HailMaximum 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

over 30 years

Linear performance guarantees



:	:::	Power		Power	:
Production 1st year	≥ 99.0%	between 2 and 25 years	≤ 0.35%		≥ 88.85%



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OX-xxx-G10BB108-01 (xxx=440-470)

Electrical performance

POWER CLASS (1)			4	40	4	45	45	50	4.	55	46	0	46	65	47	70
Measurement condition			STC (2)	NMOT(3)	STC	NMOT	STC	NMOT								
Maximum power	Pmax	[Wp]	440	331	445	335	450	339	455	343	460	346	465	350	470	358
Voltage at Pmax	Vmp	[V]	34,38	32,47	34,44	32,52	34,50	32,58	34,56	32,64	34,62	32,69	34,68	32,75	34,74	32,786
Current at Pmax	Imp	[A]	12,80	10,22	12,93	10,32	13,05	10,41	13,17	10,51	13,29	10,61	13,41	10,71	13,54	10,90
Open Circuit Voltage	Voc	[V]	40,82	38,55	40,88	38,60	40,94	38,66	41,00	38,72	41,06	38,77	41,12	38,83	41,18	38,94
Short circuit current	Isc	[A]	13,92	11,26	14,02	11,34	14,12	11,42	14,22	11,50	14,25	11,52	14,29	11,55	14,32	11,60
Surface efficiency	Eff	[%]	22,	,1	22	2,3	22	,6	22	,8	23	,1	23	5,3	23,	,5
Max. Reverse Current	Ir	[A]	25													
System voltage max	Vsys	[V]	1500 CD (IEC)													

Mechanical characteristics

Dimensions 1757mm x 1134 x 30mm

Weight 21.5 Kg

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

Rear panel Anti-aging film (Black)

Frame Anodized aluminum alloy (Black)

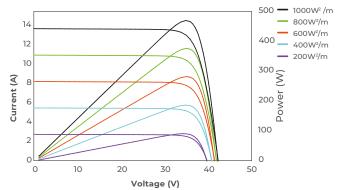
Junction box IP68 - 3 Bypass Diodes Connectors Compatible MC - EVO2

Cross-section: 4 mm² - Length: 1200mm Cables

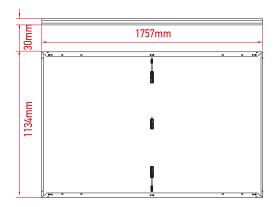
or can be customized

I-V curve

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



Dimensions



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

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	36
Pallets per Container	26
Pieces per Container	(36+36)x13=936 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