

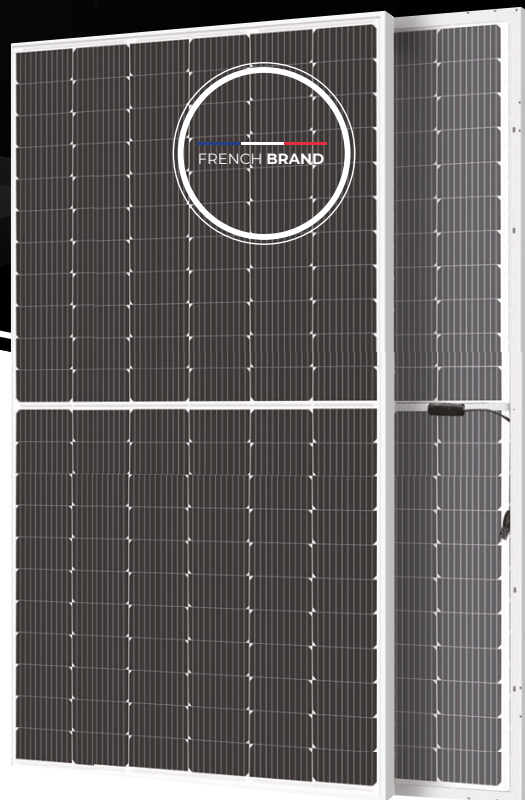
MONO CRYSTALLINE HALF-CUT BIFACIAL MODULE

500 / 505 / 510 Watts

Half-Cut Series

Overview

Ground breaking technology; higher power output, improved system performance - the ideal solution for end users who want a fast turnaround on their investments. A fully certified premium quality and high efficiency module made with A Grade materials.



Guaranteed mechanical resistance to severe weather conditions

Positive Tolerance

100 % electroluminescence tested

Key benefits



Certified by Independent Engineering Bodies



Product Liability Insurance



Ultra High Power Output



25 Years Limited Product Warranty



Low Resistive Losses



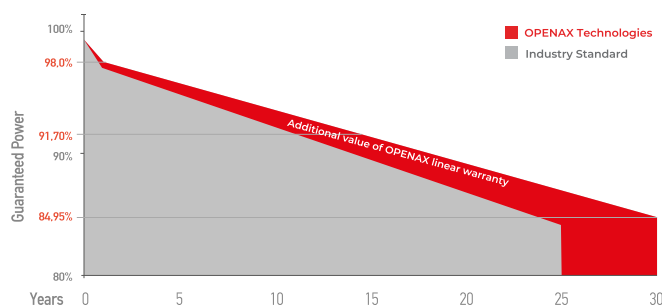
Low LCOE

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

Warranties	<ul style="list-style-type: none"> 30-year limited product warranty 15-year manufacturer warranty on 91,70% of the nominal performance Linear power output guarantee over 25 years
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Linear performance guarantees



Production 1st year	$\geq 95.0\%$	Power between 2 and 25 years	$\leq 0.45\%$	Power output at 25 years	$\geq 84.95\%$
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HJT MONO CRYSTALLINE HALF-CUT BIFACIAL MODULE

OX-xxx-M10TBVB182-01(xxx=500-510)

Electrical performance

POWER CLASS ⁽¹⁾		500		505		510	
Measurement condition		STC ⁽²⁾	NMOT ⁽³⁾	STC	NMOT	STC	NMOT
Maximum power	P _{max} [Wp]	500	373,6	505	377	510	380,7
Voltage at P _{max}	V _{mp} [V]	38,80	36,17	39,08	36,43	39,28	36,61
Current at P _{max}	I _{mp} [A]	12,89	10,32	12,94	10,36	13,00	10,41
Open Circuit Voltage	V _{oc} [V]	45,78	42,81	45,95	42,97	46,18	43,19
Short circuit current	I _{sc} [A]	13,48	10,88	13,53	10,92	13,58	10,96
Surface efficiency	Eff [%]	21,0		21,2		21,5	
Max. Reverse Current	I _r [A]			25			
System voltage max	V _{sys} [V]			1500V CD			

(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

Bi Facial Output (4)

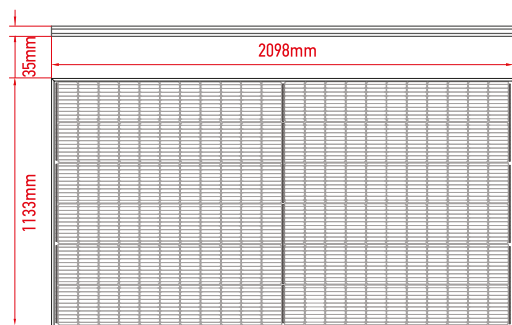
POWER CLASS			500		505		510	
Power with Backside Gain			P _{max} (Wp)	Eff (%)	P _{max} (Wp)	Eff (%)	P _{max} (Wp)	Eff (%)
	+5	(%)	525,0	22,1%	530,3	22,3%	535,5	22,5%
	+10	(%)	550,0	23,1%	55,5	23,4%	561,0	23,6%
	+15	(%)	575,0	24,2%	580,8	24,4%	586,5	24,7%
	+20	(%)	600,0	25,2%	606,0	25,5%	612,0	25,7%
	+25	(%)	625,0	26,3%	631,3	26,6%	637,5	26,8%
	+30	(%)	650,0	27,3%	656,5	27,6%	663,0	27,9%

(4) Bifaciality Factor > 90% - Back-side power gain depends upon the specific project albedo - Efficiency is according to the module

Mechanical characteristics

Dimensions	2098mm x 1133mm x 35mm (82.60 x 44.60 x 1.4in)
Weight	26.0 Kg (57.32lb)
Cells	Mono Perc - 182mm x 91mm (7.17 x 3.59in) (2x66Pcs) - M10
Front panel	3.2mm (0.13in) Tempered and low iron glass + ARC
Rear panel	Anti-aging film (Clear)
Frame	Anodized aluminum alloy
Junction box	IP68 - 3 Bypass Diodes
Connectors	MC4 Compatible - EVO2
Cables	Cross-section: 4mm ² (0.16in ²) Length: 300mm (11.81in) or can be customized

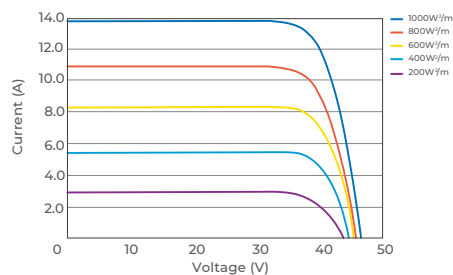
Dimensions



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

I-V curve

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



Thermal coefficients

Coeff./ P _{max}	-0.35% / °C
Coeff./ V _{oc}	-0.22% / °C
Coeff./ I _{sc}	+0.05% / °C
Operating temperature	-40~+90 °C
Nominal module operating temperature (NMOT)	42 ± 2 °C

Packaging configuration

Container	40' (HC)
Pieces per Pallet	31
Pallets per Container	22
Pieces per Container	(31 + 31) x 11 = 682 pcs