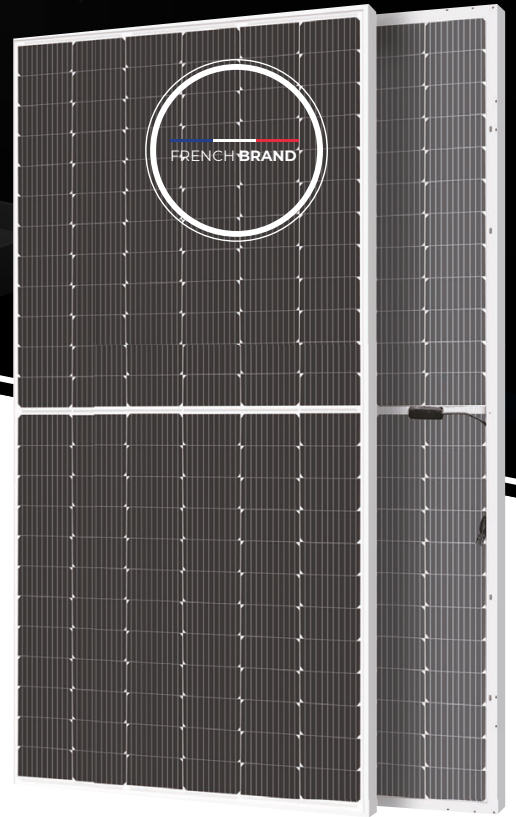


## MONO CRYSTALLINE HALF-CUT BIFACIAL MODULE

540 / 545 / 550 / 555 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

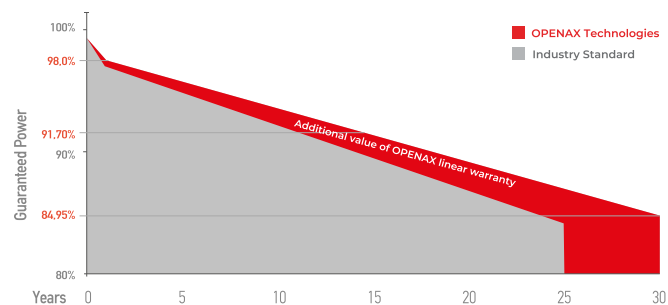


Low LCOE

#### Tests, Certifications and Guarantees

<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>Power Tolerance</b>	Guaranteed +0/+5W [STC condition]
<b>Warranties</b>	<ul style="list-style-type: none"> <li>✓ 30-year limited product warranty</li> <li>✓ 15-year manufacturer warranty on 91,70% of the nominal performance</li> <li>✓ Linear power output guarantee over 25 years</li> </ul>

#### Linear performance guarantees



Production 1st year	≥ 98.0%	Power between 2 and 25 years	≤ 0.45%	Power output at 25 years	≥ 85.95%
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# HJT MONO CRYSTALLINE DOUBLE-GLASS HALF-CUT BIFACIAL MODULE

OX-xxx-M10TBVB182-01(xxx=540-555)

## Electrical performance

POWER CLASS <sup>(1)</sup>			540		545		550		555	
Measurement condition			STC <sup>(2)</sup>	NMOT <sup>(3)</sup>	STC <sup>(2)</sup>	NMOT <sup>(3)</sup>	TC <sup>(2)</sup>	NMOT <sup>(3)</sup>	TC <sup>(2)</sup>	NMOT <sup>(3)</sup>
Maximum power	Pmax	[Wp]	540	403,1	545	406,9	550	410,9	555	410,4
Voltage at Pmax	Vmp	[V]	41,69	38,86	41,94	39,09	42,19	39,33	42,42	39,54
Current at Pmax	Imp	[A]	12,96	10,38	13,00	10,41	13,05	10,45	13,09	10,48
Open Circuit Voltage	Voc	[V]	49,78	46,56	50,00	46,76	50,25	46,99	50,50	47,23
Short circuit current	Isc	[A]	13,59	10,94	13,64	11,01	13,69	11,05	13,73	11,08
Surface efficiency	Eff	[%]	20,9		21,1		21,3		21,5	
Max. Reverse Current	Ir	[A]	25							
System voltage max	V <sub>SYS</sub>	[V]	1500V DC							

(1) Measurement tolerances: P<sub>max</sub> ( ± 3% ), I<sub>sc</sub> & V<sub>oc</sub> ( ± 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 80 0W/m<sup>2</sup> Ambient Temperature 20°C, AM

## Bi Facial Output (4)

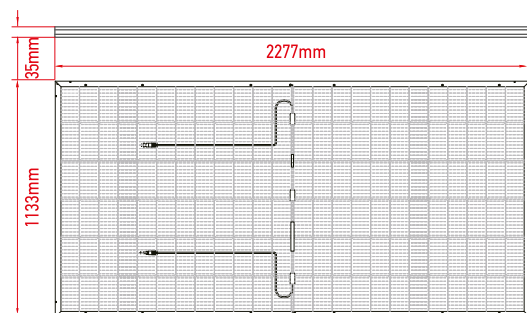
POWER CLASS		540		545		550		555	
		P <sub>max</sub> (Wp)	Eff (%)	P <sub>max</sub> (Wp)	Eff (%)	P <sub>max</sub> (Wp)	Eff (%)	P <sub>max</sub> (Wp)	Eff (%)
Power with Backside Gain	+5 (%)	567,0	22,0%	572,3	22,2%	577,5	24,4%	582,8	22,6%
	+10 (%)	594,0	23,0%	599,5	23,2%	605,0	23,5%	610,5	23,7%
	+15 (%)	621,0	24,1%	626,8	24,3%	632,5	24,5%	638,3	24,7%
	+20 (%)	648,0	25,1%	654,0	25,4%	660,0	25,6%	666,0	25,8%
	+25 (%)	675,0	26,2%	681,3	26,4%	687,5	26,6%	693,8	26,9%
	+30 (%)	702,0	27,2%	708,5	27,5%	715,0	27,7%	721,5	28,0%

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

## Mechanical characteristics

Dimensions	2277mm x 1133 x 35mm (89.65 x 44.60 x 1.4in)
Weight	29 0Kg (63.93 lb)
Cells	Mono Perc - 182mm x 91mm (7.17 x 3.59) (2 x 72Pcs) - 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 <sup>2</sup> (0.16in <sup>2</sup> ) - Length: 300mm (11.81in) or can be customized

## Dimensions



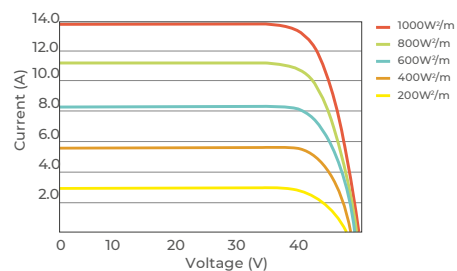
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## I-V curve

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



## Thermal coefficients

Coeff./ P <sub>max</sub>	-0.35% / °C
Coeff./ V <sub>oc</sub>	-0.27% / °C
Coeff./ I <sub>sc</sub>	+0.05% / °C
Operating temperature	-40~+85 °C
Nominal module operating temperature (NMOT)	42 ± 2 °C

## Packaging configuration

Container	40' (HC)
Pieces per Pallet	31
Pallets per Container	20
Pieces per Container	(31 +31) x10=620 pcs