

Warranties



⊘ 30-year limited product warranty

of the nominal performance
Q Linear power output guarantee

over 30 years

⊘ 15-year manufacturer warranty on 94, 10%

Production 1st year	≥ 98.0 %	, between	≤ 0.44 %	Power output	≥ 85.24 %
ist year	I	2 and 25 years	***	at 25 years	

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HJT MONO CRYSTALLINE DOUBLE-GLASS HALF-CUT BIFACIAL MODULE

OX-xxx-M10TBVB120-01(xxx=440-460)

Electrical performance

			440			445	4	50		455		460
Measurement condition			STC (2)	NMOT ⁽³⁾	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power	Pmax	[Wp]	440	324	445	328	450	331	455	335	460	339
Voltage at Pmax	Vmp	[V]	34,20	31,94	34,50	32,14	34,70	32,34	34,9	32,54	35,20	32,74
Current at Pmax	Imp	[A]	12,84	10,14	12,90	10,21	12,69	10,24	13,02	10,30	13,08	10,35
Open Circuit Voltage	Voc	[V]	41,00	38,28	41,20	38,48	41,40	38,68	41,60	38,88	41,80	39,08
Short circuit current	lsc	[A]	13,58	10,68	13,63	10,73	13,68	10,78	13,73	10,83	13,78	10,88
Surface efficiency	Eff	[%]	20,33	3		20,56	20,	,79	:	21,02		21,25
Max. Reverse Current	Ir	[A]					2	5				
System voltage max	Vsys	[V]					1500	V CD				

(1) Measurement tolerances: Pmax (± 3%), Isc & Voc (± 3%) - Power classification O/+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

Bi Facial Output (4)

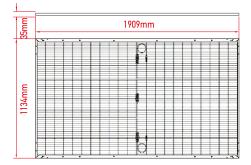
POWER CLASS			440		445		450		455		460	
			Pmax (Wp)	Eff (%)								
	+5	(%)	462,0	21,3%	467,3	21,6 %	472,5	21,8 %	477,8	22,1%	483,0	22,3%
Power	+10	(%)	484,0	22,4%	489,5	22,6 %	495,0	22,9 %	500,5	23,1%	506,0	23,4%
with Backside Gain	+15	(%)	506,0	23,4%	511,8	23,6%	517,5	23,9 %	523,3	24,2%	529,0	24,4%
	+20	(%)	528,0	24,4%	534,0	24,7 %	540,0	24,9 %	546,0	25,2%	552,0	25,5%
	+25	(%)	550,0	25,4%	556,3	25,7%	562,5	26,0%	568,8	26,3 %	575,0	26,6 %
	+30	(%)	572,0	26,4 %	578,5	26,7 %	585,0	27,0%	591,5	27,3%	598,0	27,6 %

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

Mechanical characteristics

Dimensions Weight Cells	1909mm x 1134mm x 30mm 27.0 Kg HJT 182mm x 91mm (2x60 Pcs) - M10
Front panel	2.0mm Tempered and low iron glass - ARC
Rear panel	2.0m Tempered and low iron glass
Frame	Anodized aluminum alloy
Junction box	IP68 - 3 Bypass Diodes
Connectors	MC4 Compatible
Cables	Cross-section: 4mm ² - Landscape = (-) 1200mm (+) 120mm Portrait= (-) 200mm (+) 300mm or customized

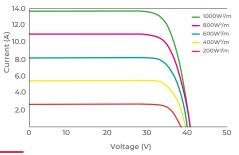
Dimensions



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

I-V curve

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



Thermal coefficients

Coeff./ Pmax	-0.36% / °C
Coeff./ Voc	-0.28% / °C
Coeff./ Isc	+0.05%/°C
Operating temperature	-40~+85 °C
Nominal module operating temperature (NMO	T) 42 ± 2 °C
Packaging configuration	
Container	40' (HC)
Pieces per Pallet	31
Pallets per Container	24
Pieces per Container	(31 +31) x12=744 pcs

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