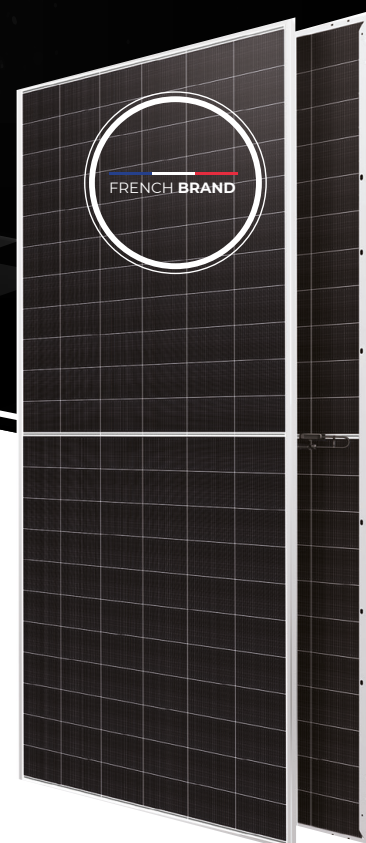


BIFACIAL HJT MONO CRYSTALLINE HALF-CUT MODULE - DOUBLE GLASS


620 / 625 / 630 / 640 Watts




Heterojunction Series

Overview


Heterojunction (HJT) photovoltaic module is a Ground breaking Technology. HJT technology guarantees high performance and low degradation of the PV module, substantially improving the results and the yield in the time. "Heterojunction" Series module is the ideal solution for end users who want a Quality PV & reliable product over time and a fast turnaround on their investments.



Guaranteed mechanical resistance to severe weather conditions



Positive Tolerance



100 % electroluminescence tested



Key benefits



Zero Light Induced Degradation



0% Front Grid Shading Loss



Low LCOE



25 Years Limited Product Warranty



Low Pmax Temperature Coefficient



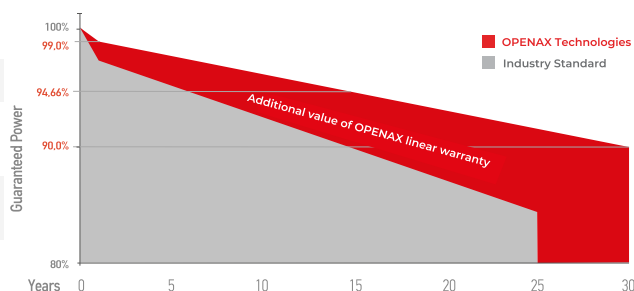
Higher Light Conversion

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]
Power Tolerance	Guaranteed +0/+5W (STC condition)

Warranties	<ul style="list-style-type: none"> 30-year limited product warranty 15-year manufacturer warranty on 94,66% of the nominal performance Linear power output guarantee over 25 years
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Linear performance guarantees



Production 1st year	≥ 99.0%	Power between 2 and 25 years	≤ 0.31%	Power output at 25 years	≥ 90.0%
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BIFACIAL HJT MONO CRYSTALLINE HALF-CUT MODULE - DOUBLE GLASS

PB-xxx-HJTBBV132-01(xxx=620-640)

Electrical performance

POWER CLASS ⁽¹⁾			620		625		630		635		640	
Measurement condition			STC ⁽²⁾	NMOT ⁽³⁾	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power	Pmax	[Wp]	620	473	625	477	630	481	635	484	640	488
Voltage at Pmax	Vmp	[V]	41,05	39,18	41,14	39,26	41,23	39,34	41,32	39,42	41,41	39,52
Current at Pmax	Imp	[A]	15,12	12,08	15,21	12,16	15,30	12,23	15,39	12,30	15,47	12,36
Open Circuit Voltage	Voc	[V]	49,15	46,91	49,25	47,01	49,34	47,09	49,43	47,18	49,52	47,26
Short circuit current	Isc	[A]	15,96	12,76	16,06	12,84	16,16	12,92	16,26	13,00	16,36	13,08
Surface efficiency	Eff	[%]	22,95		22,28		23,32		23,51		23,69	
Max. Reverse Current	Ir	[A]	30									
System voltage max	Vsys	[V]	1500V CD (IEC)									

(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)

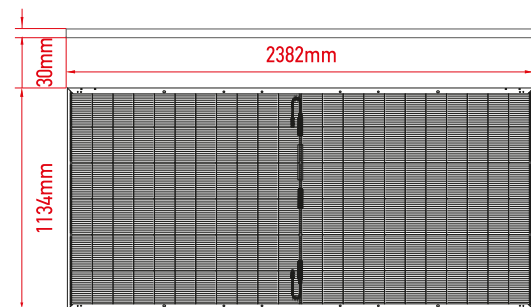
POWER CLASS		620		625		630		635		640	
		P _{max} (Wp)	Eff (%)	P _{max} (Wp)	Eff (%)	P _{max} (Wp)	Eff (%)	P _{max} (Wp)	Eff (%)	P _{max} (Wp)	Eff (%)
Power with Backside Gain	+5 (%)	651,0	24,1%	656,3	24,3%	661,5	24,5%	666,8	24,7%	672,0	24,9%
	+10 (%)	682,0	25,2%	687,5	25,5%	693,0	25,7%	698,5	25,9%	704,0	26,1%
	+15 (%)	713,0	26,4%	718,8	26,6%	724,5	26,8%	730,3	27,2%	736,0	27,2%
	+20 (%)	744,0	27,5%	750,0	27,8%	756,0	28,0%	762,0	28,2%	768,0	28,4%
	+25 (%)	775,0	28,7%	781,3	28,9%	787,5	29,2%	793,8	29,4%	800,0	29,6%
	+30 (%)	806,0	29,8%	812,5	30,1%	819,0	30,3%	825,5	30,6%	832,0	30,8%

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

Mechanical characteristics

Dimensions	2382mm x 1134 x 30mm
Weight	32.6 Kg
Cells	HJT 182mm x 105mm (2x66 Pcs) - G12R
Front panel	2.0mm Tempered and low iron glass + ARC
Rear panel	2.0mm Tempered and low iron glass
Frame	Anodized aluminum alloy (Black)
Junction box	IP68 - 3 Bypass Diodes
Connectors	MC4 Compatible - EVO 2
Cables	Cross-section: 4mm ² - Length: 300mm or can be customized

Dimensions



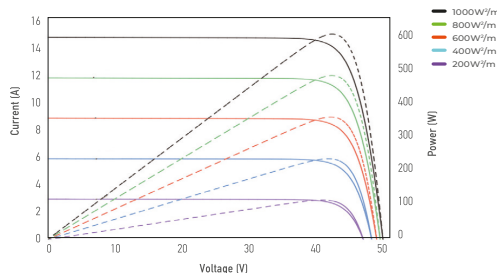
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I-V curve

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



Thermal coefficients

Coeff./ P _{max}	-0.24% / °C
Coeff./ V _{oc}	-0.24% / °C
Coeff./ I _{sc}	+0.04% / °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	20
Pieces per Container	(36+36)x10=720 pcs