

HJT MONO CRYSTALLINE HALF-CUT MODULE - DOUBLE GLASS


430 / 435 / 440 / 445 / 450 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



30 Years Limited Product Warranty



Low Pmax Temperature Coefficient



Higher Light Conversion

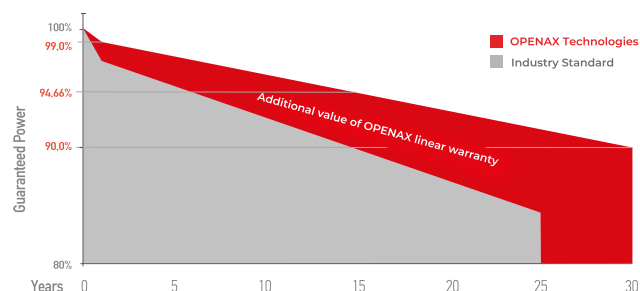


Tests, Certifications and Guarantees

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, 10% of the nominal performance ✓ Linear power output guarantee over 30 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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OX-xxx-HJTBV108-01(xxx=430-450)

Electrical performance

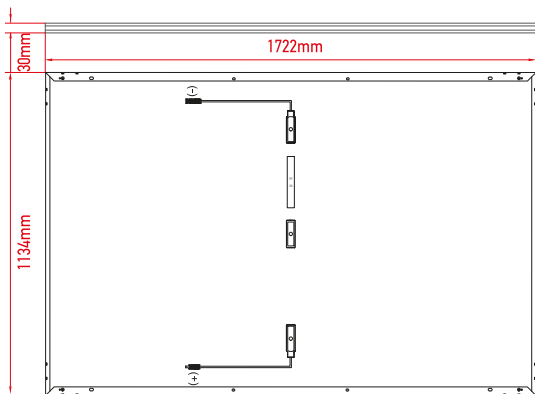
POWER CLASS ⁽¹⁾			430		435		440		445		450	
Measurement condition			STC ⁽²⁾	NMOT ⁽³⁾	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power	Pmax	[Wp]	430	327	435	331	440	335	445	338	450	342
Voltage at Pmax	Vmp	[V]	34,60	32,64	34,86	32,91	35,12	33,17	35,38	33,34	35,63	33,60
Current at Pmax	Imp	[A]	12,43	10,02	12,48	10,06	12,53	10,10	12,58	10,14	12,63	10,18
Open Circuit Voltage	Voc	[V]	41,37	39,48	41,64	39,74	41,91	40,00	42,18	40,26	42,44	40,50
Short circuit current	Isc	[A]	12,95	10,44	13,00	10,48	13,05	10,52	13,10	10,56	13,15	10,60
Surface efficiency	Eff	[%]	22,02		22,28		22,53		22,79		23,04	
Max. Reverse Current	Ir	[A]	25									
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

Mechanical characteristics

Dimensions	1722mm x 1134 x 30mm
Weight	22.0 Kg
Cells	HJT 182mm x 91mm (2x54 Pcs) - G10
Front panel	1.6mm Tempered and low iron glass + ARC
Rear panel	1.6mm Tempered and low iron glass
Frame	Anodized aluminum alloy (Black)
Junction box	IP68 - 3 Bypass Diodes
Connectors	Compatible MC4
Cables	Cross-section: 4mm ² - Length: 1200mm or can be customized

Dimensions



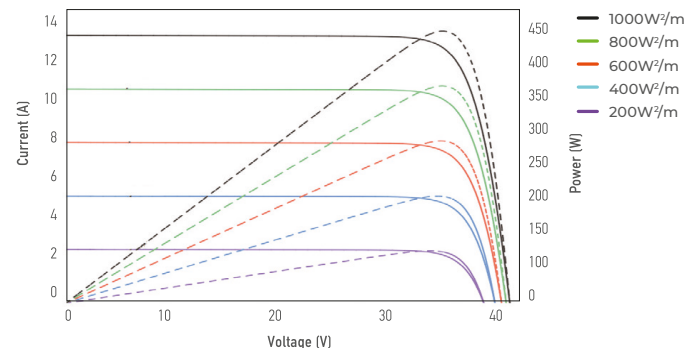
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I-V curve

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



Thermal coefficients

Coeff./ P _{max}	-0.24% / °C
Coeff./ V _{oc}	-0.22% / °C
Coeff./ I _{sc}	+0.047% / °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