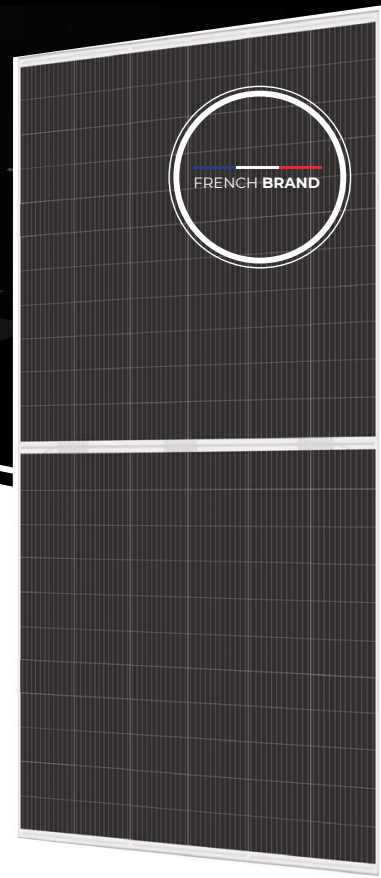


MONO CRYSTALLINE HALF-CUT MODULE


650 / 655/ 660 / 665 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



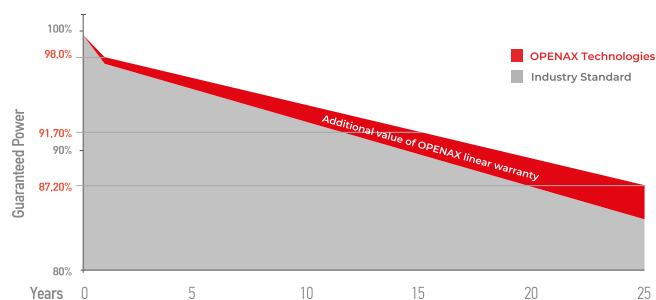
Low LCOE

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
-------------------	---

Linear performance guarantees



Production 1st year	≥ 98.0%	Power between 2 and 25 years	≤ 0.45%	Power output at 25 years	≥ 87.20%
---------------------	---------	------------------------------	---------	--------------------------	----------

MONOCRYSTALLINE HALF-CUT MODULE

OX-xxx-M10HC132-01(xxx=650-665)

Electrical performance

POWER CLASS ⁽¹⁾		650		655		660		665	
Measurement condition		STC ⁽²⁾	NMOT ⁽³⁾	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power	Pmax [Wp]	650	491	655	495	660	499	665	503
Voltage at Pmax	Vmp [V]	37,61	34,86	37,81	35,05	38,01	35,24	38,21	35,42
Current at Pmax	Imp [A]	17,28	14,09	17,32	14,13	17,36	14,16	17,40	14,19
Open Circuit Voltage	Voc [V]	45,58	42,30	45,78	42,48	45,98	42,67	46,18	42,86
Short circuit current	Isc [A]	18,16	14,89	18,21	14,93	18,26	14,97	18,31	15,01
Surface efficiency	Eff [%]	20,92		21,09		21,25		21,41	
Max. Reverse Current	Ir [A]	30							
System voltage max	Vsys [V]	1500V CD							

(1) Measurement tolerances: Pmax (± 3%), Isc & Voc (± 3%) - Power classification 0/+5W

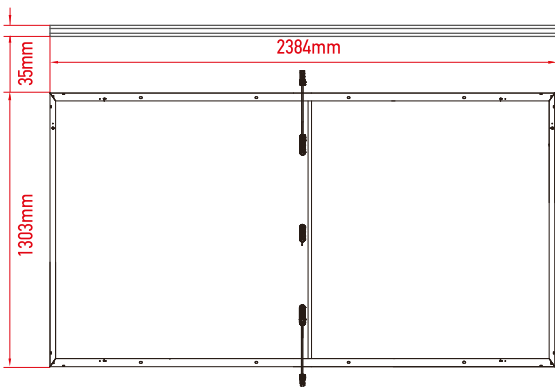
(2) STC (Standard Test Conditions): Irradiance 1000W/m² Cell Temperature 25°C, AM 1.5

(3) NMOT (Nominal Module Operating Temperature): Irradiance 800W/m² Ambient Temperature 20°C, AM

Mechanical characteristics

Dimensions	2384mm x 1303mm x 35mm
Weight	34 Kg
Cells	Mono Perc 210mm x 105mm (2x66 Pcs) - G12
Front panel	3.2mm Tempered and low iron glass + ARC
Rear Side	Anti-aging film
Frame	Anodized aluminum alloy
Junction box	IP68 - 3 Bypass Diodes
Connectors	Compatible MC4
Cables	Cross-section: 4mm ² - Landscape: 1500mm

Dimensions



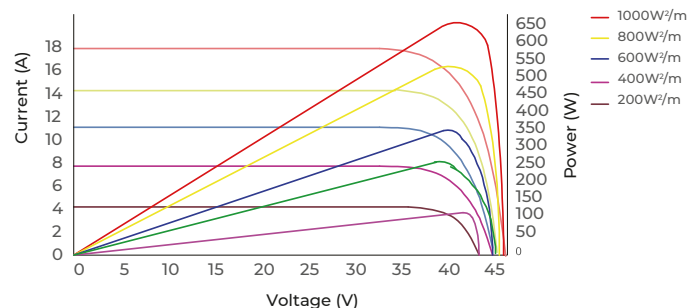
OPENAX assumes no responsibility for any typographical, formatting, misinformation, or any other errors or omissions contained herein.

www.openax.com

Specifications and key features described in this data sheet may vary slightly and are not guaranteed. Due to continuous product innovation, research and improvement, OPENAX reserves the right to make adjustments to the information described herein at any time and without notice. Please always obtain the most recent version of the technical data sheet, which must be duly incorporated into the contract.

I-V curve

Power loss in low-light environments: 200W/m² 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 (NMOT)	42±2 °C

Packaging configuration

Container	40' (HC)
Pieces per Pallet	31
Pallets per Container	18
Pieces per Container	(31 +31) x9= 558 pcs