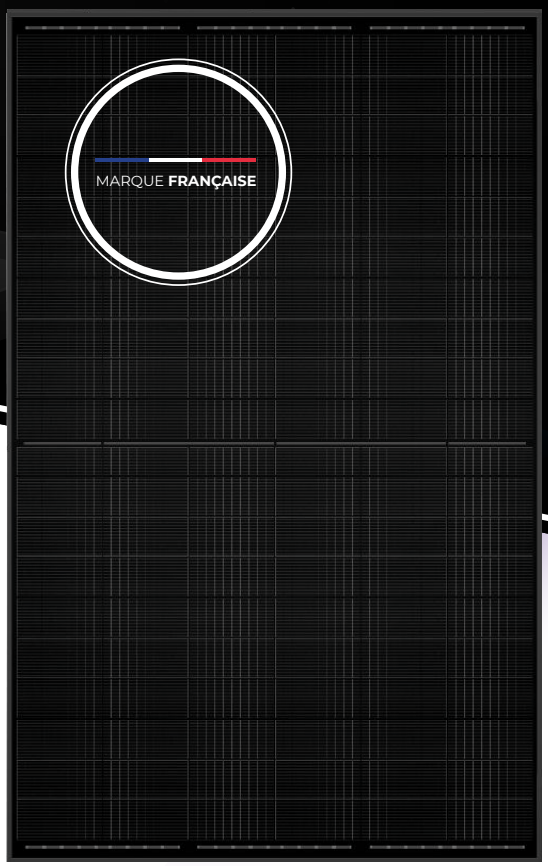
OPENAX

MONOCRYSTALLINE HALF-CELL MODULE

485 / 490 / 495 / 500 / 510 Watts



Half-Cut Technology Series

Overview

Revolutionary technology: higher output power and improved system performance - the ideal solution ideal for end-users looking for a rapid return on return on investment.

Premium-quality, high-performance module with top-quality materials.

- Guaranteed mechanical guaranteed weather resistance
- Positive tolerance
- 100% controlled Electroluminescence

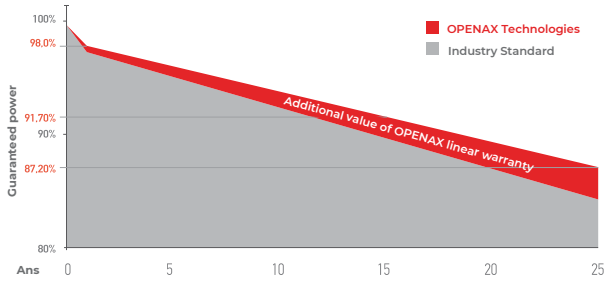
Key benefits

- Certified by Independent Bodies
- Product liability **Insurance**
- High power output
- 30-year limited warranty on product
- Reduced resistive losses reduced
- Reduced LCOE

Tests, Certifications and Guarantees

Standard tests	IEC 61215, IEC 61730
Factory quality testing	ISO 9001:2015 - ISO 14001:2015
Certifications	CE conformity, PV CYCLE Fire safety class C to UL790
Insurance	Product liability insurance products
Maximum surface capacity	Module certified to withstand extreme extreme winds (2400 pascal) and snow loads loads (5400 pascal)
Power tolerance	Guaranteed +0/+5W according to STC conditions
Warranties	✓ 30-year limited product warranty ✓ 91.70% manufacturer's warranty performance for 15 years ✓ Linear power output guarantee over 25 years

Linear performance guarantees



Production 1st year	≥ 98%	Power between 2 and 25 years	≤ 0.45%	Power output at 25 years	≥ 87.20%

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MONOCRYSTALLINE HALF-CELL MODULE

OX-xxx-M10HC132-01(xxx=485-510)

Electrical performance

POWER CLASS (1)			485		490		495		500		505		510	
Measurement condition			STC (2)	NMOT(3)	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power	Pmax	[Wp]	485	357	490	360	495	364	500	368	505	372	510	375
Voltage at Pmax	Vmp	[V]	37,20	34,60	37,40	34,80	37,60	35,00	37,80	35,20	38,00	35,40	38,20	35,60
Current at Pmax	Imp	[A]	13,04	10,32	13,10	10,35	13,16	10,40	13,22	10,45	13,28	10,51	13,34	10,53
Open Circuit Voltage	Voc	[V]	44,70	41,70	44,90	41,90	45,10	42,10	45,30	42,30	45,50	42,50	45,70	42,70
Short circuit current	Isc	[A]	13,68	11,02	13,73	11,07	13,78	11,12	13,83	11,17	13,89	11,22	13,94	11,27
Surface efficiency	Eff	[%]	20,42		20,64		21,85		21,06		21,27		21,48	
Max. Reverse Current	Ir	[A]	25											
System voltage max	Vsys	[V]	1000 / 1500 V											

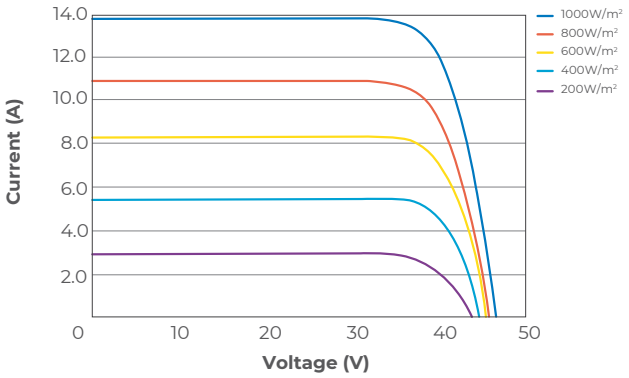
(1) Measurement tolerances: Pmax (± 3%), Isc & Voc (± 3%) - Power classification 0/+5W
(2) STC (Standard Test Conditions): Irrandiance 1000W/m2 Cell Temperature 25°C, AM 1.5
(3) NMOT (Nominal Module Operating Temperature): Irrandiance 800W/m2 Ambient Temperature 20°C, AM

Mechanical characteristics

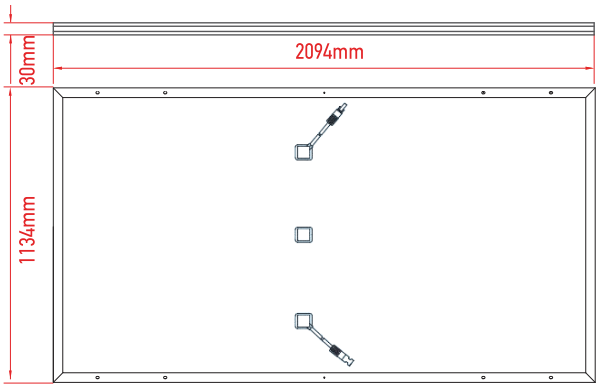
Dimensions	2094mm x 1134mm x 30mm
Weight	26.0 Kg
Cells	Mono Perc - 182mm x 91mm (2 x 66 Pcs) - M10
Front panel	3.2mm low-iron tempered glass + ARC
Rear panel	High-strength backing sheet
Frame	Anodized aluminum alloy (Black)
Junction box	IP68 - 3 Bypass Diodes
Connectors	Compatible MC4
Cables	Cross-section: 4 mm2 - Length: 1300mm Width: N 200mm/P 300mm or on request

I-V curve

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



Dimensions



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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	36
Pallets per Container	22
Pieces per Container	(36+36)x11=792pcs

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