

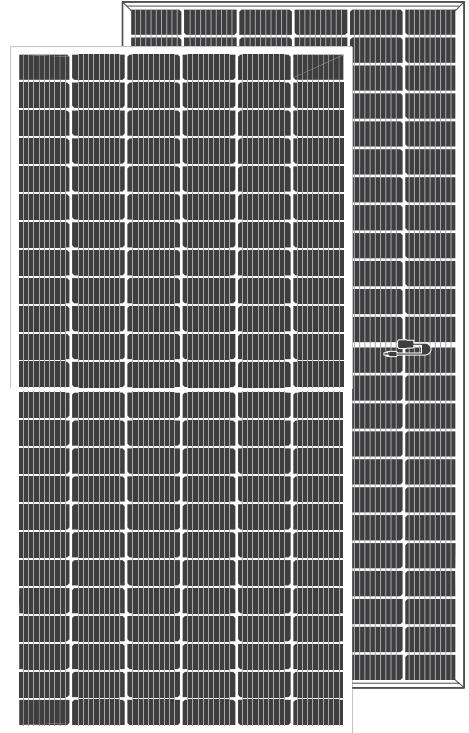


Exiom Solution diseña, fabrica y distribuye la más alta calidad en Energía Solar.

La alta eficiencia de nuestras células solares nos permite producir diferentes tipos de paneles para a su vez dar la mayor eficiencia posible a sus instalaciones.

Exiom Solution designs, manufactures and delivers high-performance solar electric technology worldwide.

Our high-efficiency solar cell let us manufacture the different kinds of panels to get the most efficient in your installations.



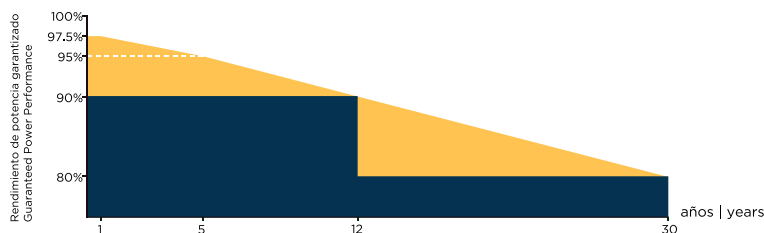
DATOS MECÁNICOS & CONDICIONES DE TRABAJO MECHANICAL SPECIFICATIONS & WORKING CONDITIONS

Dimensiones Dimensions: 2094*1038*30mm	Max. Voltaje Max. system Voltage (V): 1500VDC (IEC)
Peso Weight: 27.5 kg	No máximo. de series Max. Series Fuse Rating (A): 20
Nº Celdas y conexiones Nº Cells & conexions: 144[2x(12 x 6)]	Carga mecánica Mechanical load: 2400 / 5400Pa
Celdas Cells: 166*83 mono	Temp. funcionamiento Operating temperature: -40~+85
Conector Connector : MC4 EVO2 compatible	Factor bifacial Bifacial Factor(%): 70±5
Nº diodos No. of Diodes: 3	Conductividad terrestre Conductivity at Ground: 0.1Ω
Caja Conexión Junction Box: IP68	Clase seguridad Safety Class: II
Cable: 4 mm ²	Resistencia Resistance: ≥100MΩ
Marco Frame: Siler, anodized aluminium allow	Tolerancia VOc y ISC Voc and Isc Tolerance: ±3%

15Years Enhanced Product Warranty on Materials and Workmanship 30Years Linear Power Performance Warranty

Garantía de rendimiento lineal
Lineal performance warranty

Garantía de rendimiento estandar
Standard performance warranty



CERTIFIED
IEC
61730 Ed.1

CERTIFIED
IEC
61215 Ed.2



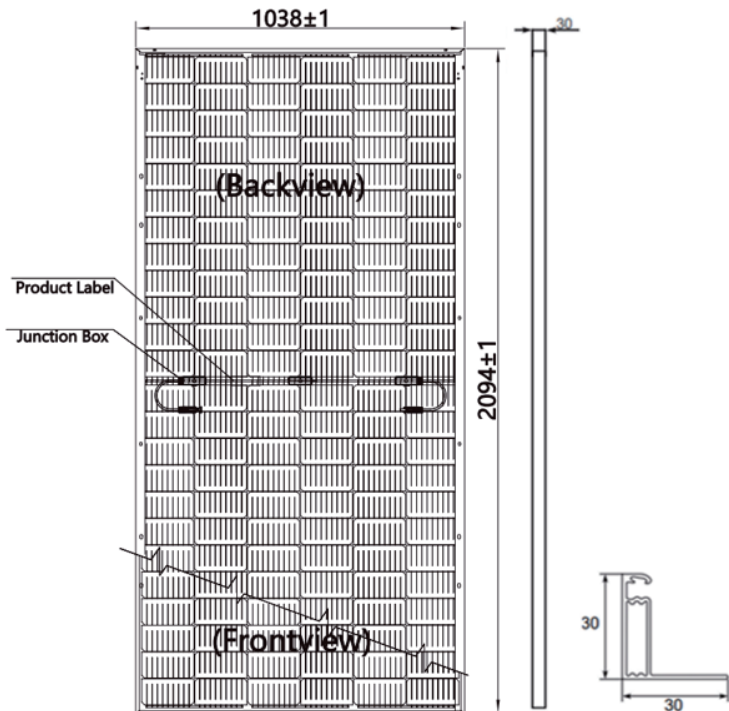
Anti-PID
System voltage durability
PPP 56042



Especificaciones sujetas a cambios técnicos y pruebas.
Exiom Solution se reserva el derecho de la correcta interpretación final.
Specifications subject to technical changes and tests. Exiom Solution reserves the right of final interpretation.

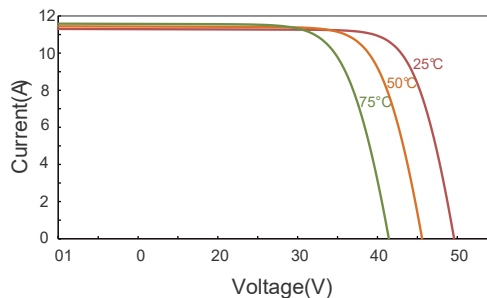
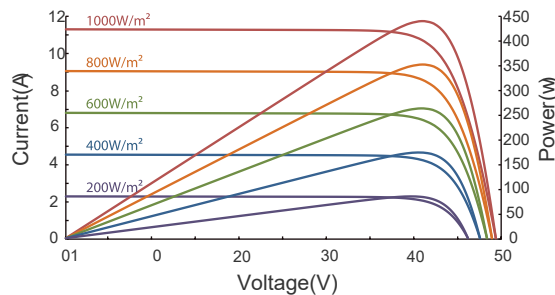
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EX440-455M(B)-144(HC)(166)BF



I-V CURVAS CURVES

Temperatura celdas | Cells temperature: 25°C.
Current-Voltage & Power Voltage Curve (440)



TIPO TYPE	EX440MB-144BF	EX445MB-144BF	EX450MB-144BF	EX455MB-144BF		
STC 1000 W/M2. Module Temperature 25°C A.M.1,5						
Potencia de salida Power output	440	445	450	455		
Max. potencia tolerada Max. power tolerance (%)	(0, +5)					
Eficiencia módulo Module efficiency (%)	20.2	20.5	20.7	20.9		
Voltaje máximo Max. voltage, VMP (V)	41.0	41.2	41.4	41.6		
Intensidad máxima actual Current, IMP (A)	10.74	10.81	10.87	10.94		
Voltaje circ. abierto Voltage open circuit, VOC (V)	49.60	49.80	50.00	50.20		
Intensidad de cortocircuito Short circuit current, ISC (A)	11.30	11.37	11.44	11.51		
REAR SIDE POWER GAIN EX440MB-144BF						
Ganancia de potencia Power Gain	5%	10%	15%	20%	25%	30%
Máxima potencia Maximum power (Pmax) (W)	462	484	506	528	550	572
Voltaje máximo Max. voltage, VMP (V)	41.0	41.3	41.5	41.6	41.7	41.8
Intensidad máxima actual Current, IMP (A)	11.27	11.72	12.20	12.70	13.19	13.69
Voltaje circ. abierto Voltage open circuit, VOC (V)	49.6	49.9	50.1	50.2	50.3	50.4
Intensidad de cortocircuito Short circuit current, ISC (A)	11.83	12.32	12.83	13.36	13.89	14.42
NOCT 800W/M2 Environment. Temperature 20°C A.M. 1,5						
Potencia de salida Power output	327.71	331.74	335.40	339.47		
Voltaje máximo Max. voltage, VMP (V)	38.60	38.80	39.00	39.20		
Intensidad máxima actual Current, IMP (A)	8.49	8.55	8.60	8.66		
Voltaje circ. abierto Voltage open circuit, VOC (V)	46.6	46.8	47.0	47.2		
Intensidad de cortocircuito Short circuit current, ISC (A)	9.10	9.16	9.21	9.27		
COEFICIENTES DE TEMPERATURA TEMPERATURE COEFFICIENTS						
Coeficiente de temp. Temp. Coefficient (P _{MAX})	-0.35%/°C					
Coeficiente de temp. Temp. Coefficient (ISC)	0.048%/°C					
Coeficiente de temp. Temp. Coefficient (VOC)	-0.27%/°C					
NOCT	41±3°C					

Packaging Configuration:

36pcs/Pallet
792pcs/40HQ Container