




**440-455 W
Perc**

-  **166 mm bifacial half cell**
-  **2.094 x 1.038 mm**
-  **27.5 kg**

DATOS MECÁNICOS MECHANICAL SPECIFICATIONS

Dimensiones Dimensions: 2094*1038	Marco Frame: Siler, anodized aluminium allow
Peso Weight: 27.5 kg	No máximo. de series Max. Series Fuse Rating (A): 20
Cable: 4 mm ²	Carga mecánica Mechanical load: 2400 / 5400Pa
Celdas Cells: 166*83 mono. 144[2x(12 x 6)]	Tolerancia V _{OC} y I _{SC} Voc and Isc Tolerance: ±3%
Conector Connector : MC4 EVO2 compatible	Factor bifacial Bifacial Factor(%): 70±5
Nº diodos No. of Diodes: 3	Conductividad terrestre Conductivity at Ground: 0.1 Ω
Caja Conexión Junction Box: IP68	Resistencia Resistance: ≥100M Ω

Warranty | Garantía

25

Years | Años
Product
Producto

30

Years | Años
Linear power
Rendimiento lineal



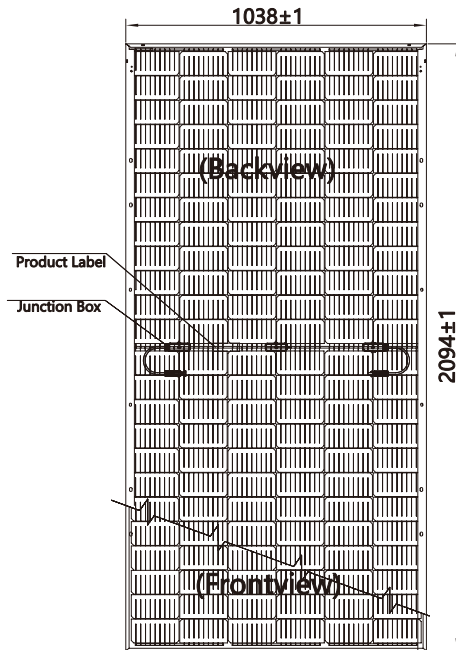
Bloomberg
NEW ENERGY FINANCE

CERTIFIED
IEC
61730 Ed.1

CERTIFIED
IEC
61215 Ed.2

✓ **Anti-PID**
System voltage durability
PPP 56042





TIPO TYPE	EX440MB-166BF		EX445MB-166BF		EX450MB-166BF		EX455MB-166BF	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Potencia de salida Power output	440	327.71	445	331.74	450	335.40	455	339.47
Voltaje circ. abierto Voltage open circuit, VOC (V)	49.60	46.6	49.80	46.8	50.00	47.0	50.20	47.2
Intensidad cortocircuito Short circuit current, ISC (A)	11.30	9.10	11.37	9.16	11.44	9.21	11.51	9.27
Voltaje máximo Max. voltage, VMP (V)	41.0	38.60	41.2	38.80	41.4	39.00	41.6	39.20
Intensidad máxima actual Current, IMP (A)	10.74	8.49	10.81	8.55	10.87	8.60	10.94	8.66
Modulo eficiencia Module Efficiency (%)	20.2		20.5		20.7		20.9	
Max. potencia tolerada Max. power tolerance (%)	(0,+5)							
Max. system Voltage (V)	1.500Vdc (IEC/UL)							
Maximum Series Fuse Rating (A)	25A							

STC 1000 W/M2. Module Temperature 25°C A.M.1,5 | NOCT 800W/M2 Environment. Temperature 20°C A.M. 1,5

COEFICIENTES DE TEMPERATURA TEMPERATURE COEFFICIENTS	BIFACIAL SALIDA BIFACIAL OUTPUT	REAR SIDE POWER GAIN
Coefficiente de temp. Temp. Coefficient (P _{MAX})	Power Gain	5% 10% 15% 20% 25% 30%
Coefficiente de temp. Temp. Coefficient (ISC)	Maximum Power- P _{max} (W)	462 484 506 528 550 572
Coefficiente de temp. Temp. Coefficient (VOC)	Open Circuit Voltage - Voc (V)	49.6 49.6 49.6 49.7 49.7 49.7
Nominal Operating Cell Temp. (NOCT)	Short- Circuit Current - I _{sc} (A)	11.83 12.37 12.9 13.41 13.94 14.48
Operating Temperature	Voltage at P _{max} -V _{mp} (V)	41.0 41.0 41.0 41.1 41.1 41.1
	Current at P _{max} - I _{mp} (A)	11.27 11.81 12.34 12.85 13.38 13.92

I-V CURVAS | CURVES

Temperatura celdas | Cells temperature: 25t-Voltage & Power Voltage Curve (440)

