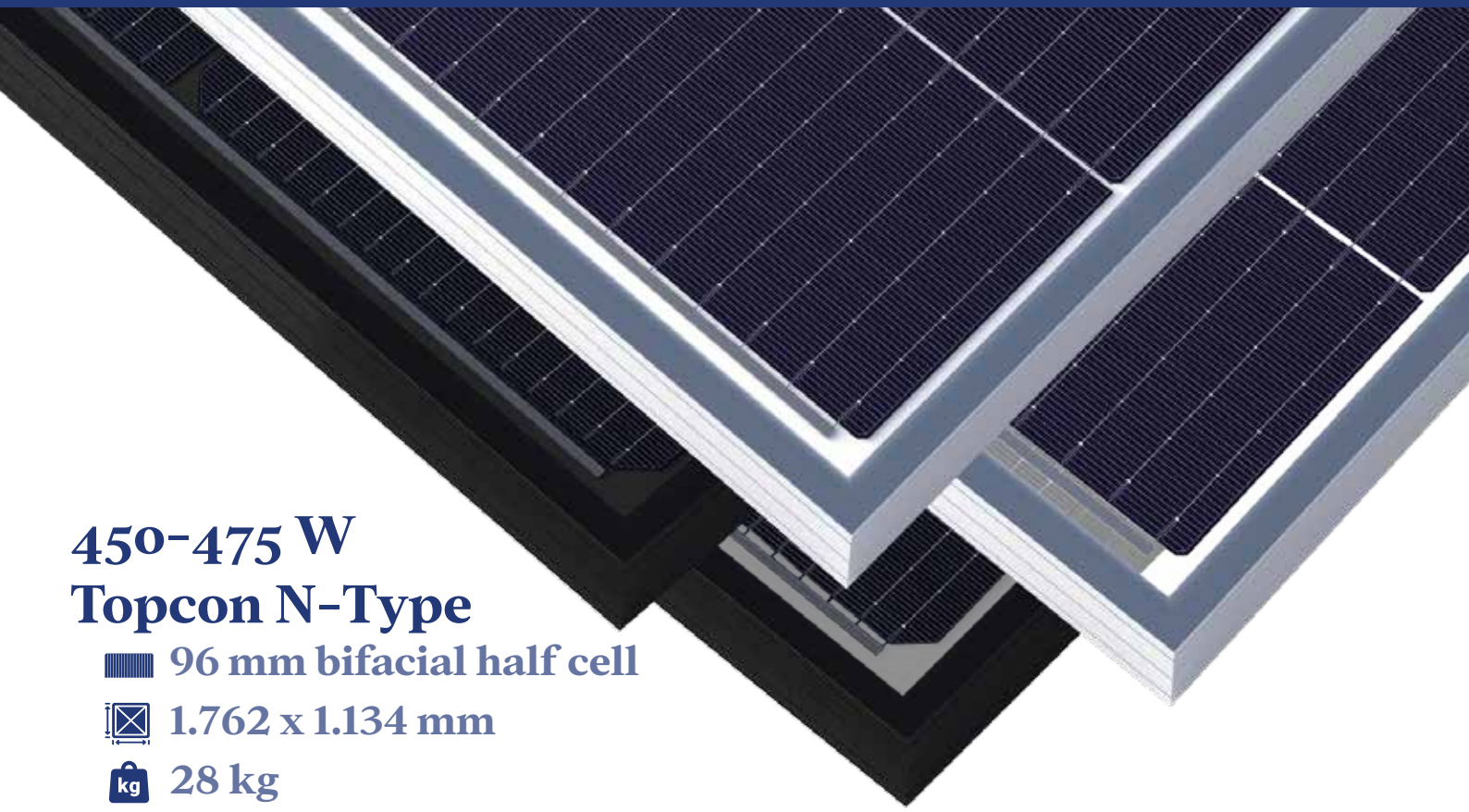
EX450-475TC(B)-96(HC)(186)BF



450-475 W
Topcon N-Type

- 96 mm bifacial half cell
- 1.762 x 1.134 mm
- 28 kg

SMBB Technology
Better light trapping and current coleec-tion to improve module power output and reliability.

PID Resistance
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.

Durability Against Extreme Envionmental Conditions
High salt mist and ammonia resistance.

Hot 2.0 Technology
The N-Type module with hot 2.0 technology has better reability and lower LID/LETID.

Enhanced Mechanical Load
Certified to withstand: wind load (3880 Pascal) and snow load (15100 Pascal).

Warranty | Garantía

25 Years | Años
Product
Producto

30 Years | Años
Linear power
Rendimiento lineal

1 TIER Bloomberg NEW ENERGY FINANCE

CERTIFIED IEC 61730 Ed.1
CERTIFIED IEC 61215 Ed.2
Anti-PID System voltage durability PPP 56042

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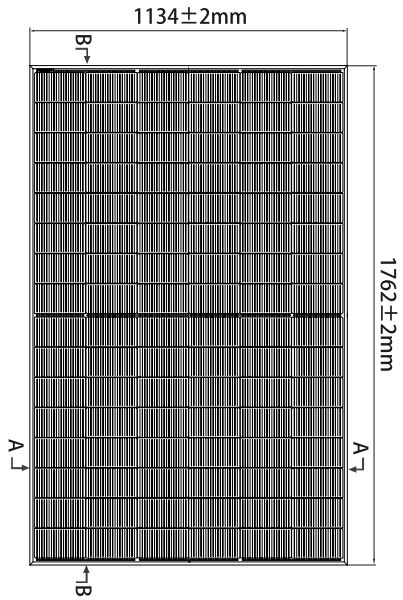
EX450-475TC(B)-96(HC)(186)BF



DATOS MECÁNICOS MECHANICAL SPECIFICATIONS

- Dimensions:1762*1134mm
- Nº of cells: 96 (48x2)
- Cells: N type Mono-crystalline
- Front glass: 3.2mm, High Transmission, Tempered Glass | Back glass: 2.0 mm.
- Front load: 15100Pa. Real Load: 3880Pa
  Laboratory-tested in accordance with the standard IEC 61215-2:2021 (MGT 16)
- Connector: JK03M/JK03M2/Others*
- Weight: 28 kg
- Junction Box: IP68 Rated
- Frame: Anodized aluminum alloy
- Cable: 4mm2 (+): 400 mm , (-): 200 mm or Customized Length
- Protection: Class Class II
- IEC Fire Type: Class C

TIPO TYPE	EX450TC-186HC(BF)		EX455TC-186HC(BF)		EX460TC-186HC(BF)		EX465TC-186HC(BF)		EX470TC-186HC(BF)		EX470TC-186HC(BF)	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Potencia de salida | Maximum Power	450	338,43	455	342,37	460	345,56	465	349,50	470	353,44	475	357,38
Voltaje máximo | Max. voltage, VMP (V)	30.25	28,74	30,48	28,95	30,71	29,17	30.94	29,39	31.17	29,61	31.40	29,83
Intensidad máxima actual | Current, IMP (A)	14.88	12,01	14,93	12,06	14,98	12,09	15.03	12,14	15.08	12,17	15.13	12,22
Voltaje circ. abierto | Voltage open circuit, VOC (V)	36.04	33,51	36,21	33,63	36,38	33,75	36.55	33,88	36.72	34,00	36.89	34,12
Intensidad cortocircuito | Short circuit current, ISC (A)	15.81	12,78	15,86	12,84	15,91	12,89	15.96	12,95	16.01	13,00	16.06	13,05
Modulo eficiencia | Moducle Efficiency (%)	22.52	12,78	22.77		23.02		23.27		23.52		23.77	
Max. potencia tolerada | Max. power tolerance (W)	0~+3%											
Max. system Voltage (V)	1500VDC (IEC)											
Maximum Series Fuse Rating (A)	30A											

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

GANANCIA POTENCIA BIFACIALIDAD BIFACIAL OUTPUT-REARSIDE POWER GAIN

5%	Maximum Power (Pmax)	472,31	478,12	483,19	488,25	493,31	498,37
	Module Efficiency STC (%)	23,64	23,93	24,18	24,44	24,69	24,94
10%	Maximum Power (Pmax)	517,69	523,62	528,81	534,75	540,69	548,13
	Module Efficiency STC (%)	25,91	26,21	26,47	26,76	27,06	27,43
15%	Maximum Power (Pmax)	562,31	569,12	575,19	581,25	587,31	593,37
	Module Efficiency STC (%)	28,14	28,48	28,79	29,09	29,39	29,70

COEFICIENTES DE TEMPERATURA TEMPERATURE COEFFICIENTS

Coeficiente de temp. | Temp. Coefficient (PMAX)	-0.29%/ºC
Coeficiente de temp. | Temp. Coefficient (ISC)	0.045%/ºC
Coeficiente de temp. | Temp. Coefficient (VOC)	-0.25%/ºC
Nominal Operating Cell Temp. (NOCT)	45ºC (±2ºC)
Operating Temperature	-40~+70ºC

I-V CURVAS CURVES

Temperatura celdas | Cells temperature: 25ºC. Current-Voltage & Power Voltage Curve (460)