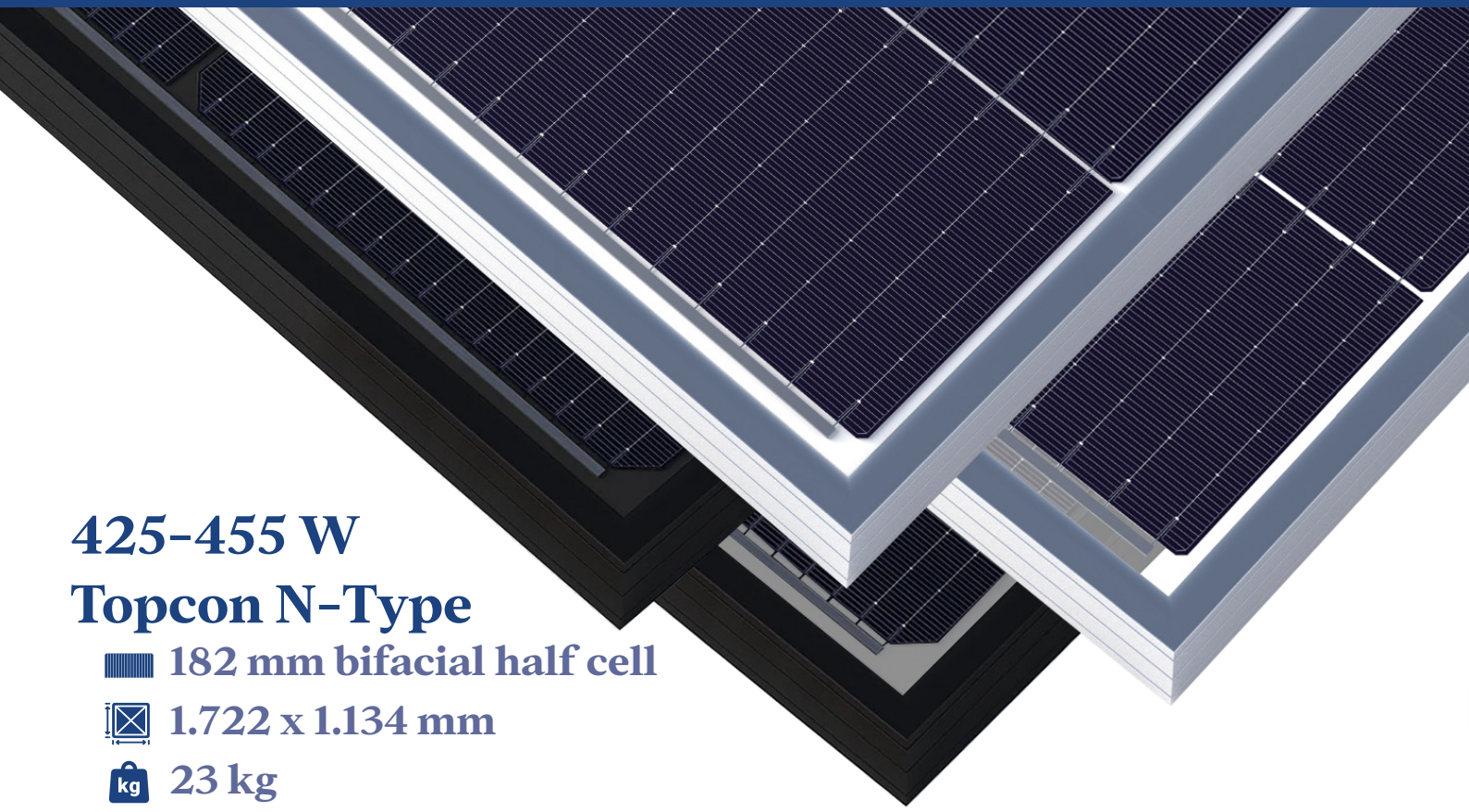
EX425-455TC(B)-108(HC)(182)BF



425-455 W
Topcon N-Type

- 182 mm bifacial half cell
- 1.722 x 1.134 mm
- 23 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 (2400 Pascal) and snow load (5400 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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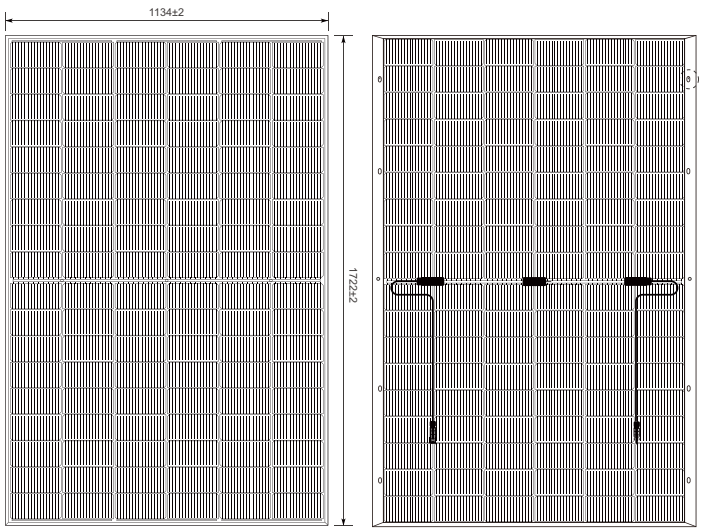
EX425-455TC(B)-108(HC)(182)BF

TIPO TYPE	EX425TC-108BF	EX430TC-108BF	EX435TC-108BF	EX440TC-108BF	EX445TC-108BF	EX450TC-108BF	EX455TC-108BF
PERFORMANCE AT STC (POWER TOLERANCE 0-+5W)							
Potencia de salida | Maximum Power	425	430	435	440	445	450	455
Voltaje máximo | Max. voltage, VMP (V)	32.10	32.27	32.44	32.61	32.78	32.95	33.12
Intensidad máxima actual | Current, IMP (A)	13.24	13.33	13.41	13.50	13.58	13.66	13.74
Voltaje circ. abierto | Voltage open circuit, VOC (V)	38.20	38.40	38.60	38.80	39.00	39.20	39.40
Intensidad cortocircuito | Short circuit current, ISC (A)	13.98	14.09	14.19	14.30	14.39	14.48	14.57
Modulo eficiencia | Moducle Efficiency (%)	21.76	22.02	22.28	22.53	22.79	23.04	23.29
PERFORMANCE AT NOCT							
Potencia de salida | Maximum Power	319.6	323.4	327.1	330.8	334.5	338.4	342.4
Voltaje máximo | Max. voltage, VMP (V)	30.21	30.37	30.53	30.69	30.86	31.02	31.18
Intensidad máxima actual | Current, IMP (A)	10.58	36.48	10.71	10.78	10.84	10.91	10.98
Voltaje circ. abierto | Voltage open circuit, VOC (V)	36.29	10.65	36.67	36.86	36.95	40.04	43.13
Intensidad cortocircuito | Short circuit current, ISC (A)	11.28	11.37	11.46	11.55	11.65	11.73	11.81
Max. potencia tolerada | Max. power tolerance (W)	0~+3%						
Max. system Voltage (V)	1500VDC (IEC/UL) DC						
Maximum Series Fuse Rating (A)	25A						

STC: Irradiance 1000W/m², Cell Temperature 25ºC, Air Mass AM1.5 NOCT: Irradiance 800W/m², Ambient Temperature 25ºC, Wind Speed 1m/s

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER AGAIN (REFERENCE TO 455W FRONT)					
Pmax gain (%)	5%	10%	15%	20%	25%
Voltaje máximo | Max. voltage, VMP (V)	477.75	500.5	523.25	546.00	568.75



DATOS MECÁNICOS MECHANICAL SPECIFICATIONS

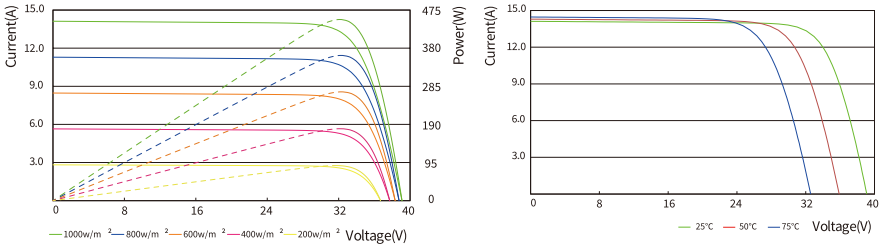
- Dimensions: 1722*1134mm
- Nº of cells: 108 [2 x (9 x 6)]
- Cells: N type Mono-crystalline
- Front glass: 3.2mm, High Transmission, Tempered Glass
- Connector: MC4 Compatible
- Weight: 23 kg
- Junction Box: IP68
- Frame: Anodized aluminum alloy
- Cable: 4mm2 | 300mm
- Front load: 5400Pa
- Real Load: 2400Pa
- Nº. of bypass diodes: 3

COEFICIENTES DE TEMPERATURA TEMPERATURE COEFFICIENTS

Coeficiente de temp. | Temp. Coefficient (PMAX)	-0.30%/ºC
Coeficiente de temp. | Temp. Coefficient (ISC)	0.043%/ºC
Coeficiente de temp. | Temp. Coefficient (VOC)	-0.24%/ºC
Nominal Operating Cell Temp. (NOCT)	41ºC (±2ºC)
Operating Temperature	-40~+85ºC

I-V CURVAS CURVES

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



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