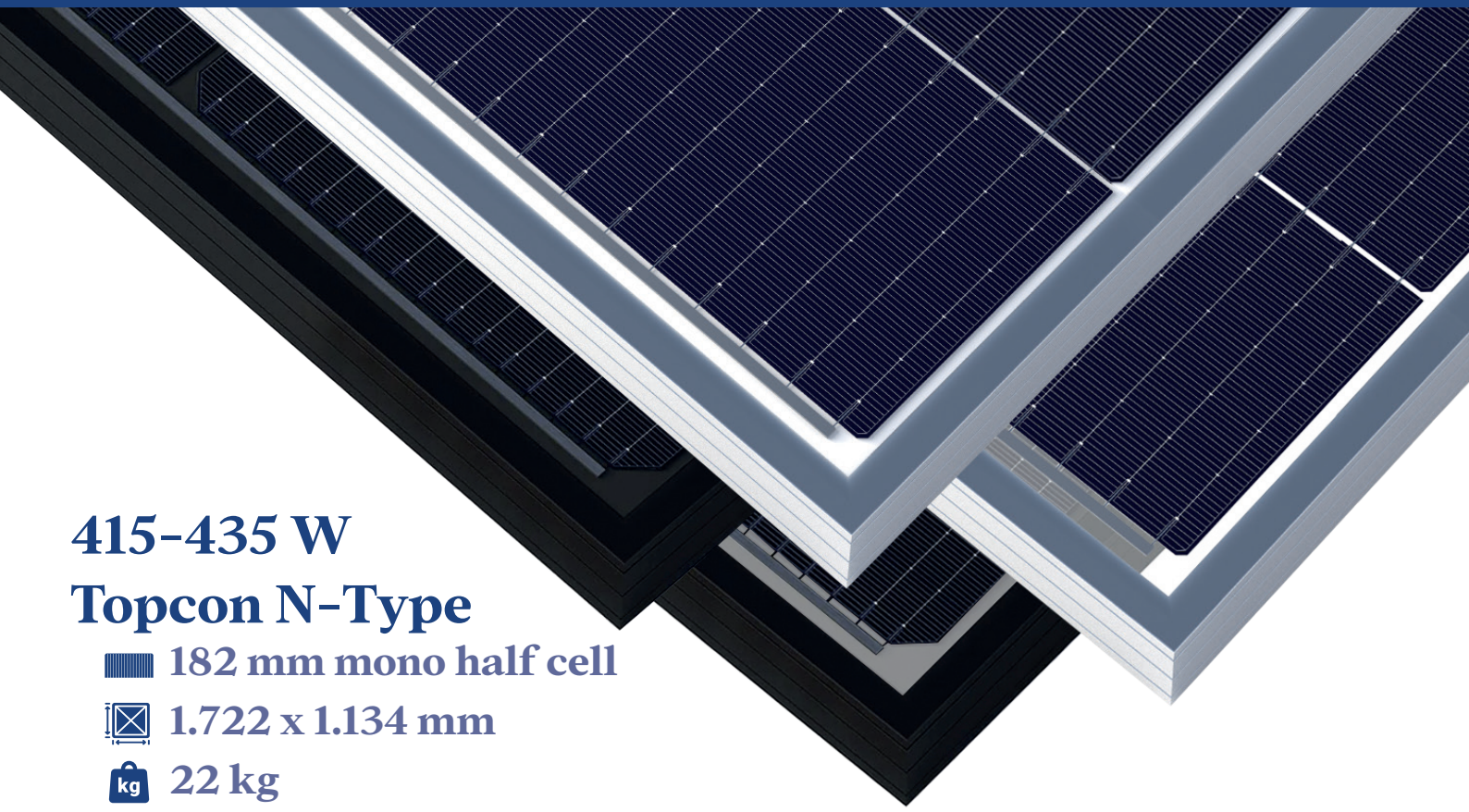
EX415-435TC(B)-108(HC)(182)BF



415-435 W
Topcon N-Type

- 182 mm mono half cell
- 1.722 x 1.134 mm
- 22 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

HEAD OFFICE: C/ SAN FRANCISCO, 5 – 5. 33003. OVIEDO
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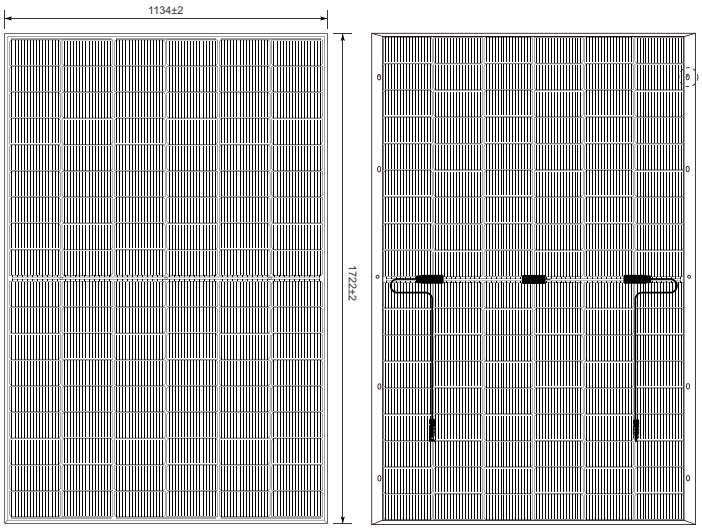
EX415-435TC(B)-108(HC)(182)BF



DATOS MECÁNICOS MECHANICAL SPECIFICATIONS
Dimensions: 1722*1134mm
Cells: N-Type 16BB 182mm (2x54pcs)
Frame: Anodized aluminum alloy
Connector: Compatible MC4
Weight: 22 kg
Front load: 5400Pa
Real Load: 2400Pa
Junction Box: IP68, 3 bypass diodes
Glass Front: 2mm Anti-reflective surface Solar glass
Glass Back: 2mm Solar glass
Cable: 4.0mm², 1m (+), 1m (-), length can be customized

TIPO TYPE	EX415TC-108BF		EX420TC-108BF		EX425TC-108BF		EX430TC-108BF		EX435TC-108BF	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Potencia de salida | Power output	415	315.3	420	319.1	425	322.8	430	326.5	435	330.2
Voltaje circ. abierto | Voltage open circuit, VOC (V)	37.92	35.90	38.11	36.10	38.30	36.20	38.49	36.40	38.68	36.50
Intensidad cortocircuito | Short circuit current, ISC (A)	13.99	11.28	14.07	11.34	14.15	11.41	14.23	11.47	14.31	11.53
Voltaje máximo | Max. voltage, VMP (V)	31.32	29.50	31.51	29.70	31.70	29.90	31.88	30.10	32.07	30.30
Intensidad máxima actual | Current, IMP (A)	13.25	10.68	13.33	10.74	13.41	10.80	13.49	10.87	13.57	10.90
Modulo eficiencia | Moducle Efficiency (%)	21.30		21.50		21.80		22.00		22.27	
Max. potencia tolerada | Max. power tolerance (%)	(0,+3)									
Max. system Voltage (V)	1.500Vdc (IEC/UL)									
Maximum Series Fuse Rating (A)	25A									

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

COEFICIENTES DE TEMPERATURA TEMPERATURE COEFFICIENTS	
Coeficiente de temp. | Temp. Coefficient (PMAX)	-0.350%/ºC
Coeficiente de temp. | Temp. Coefficient (ISC)	0.045%/ºC
Coeficiente de temp. | Temp. Coefficient (VOC)	-0.275%/ºC
Nominal Operating Cell Temp. (NOCT)	45ºC (±2ºC)
Operating Temperature	-40~+85ºC

BIFACIAL SALIDA BIFACIAL OUTPUT REAR SIDE POWER GAIN					
Power Gain	5%	10%	15%	25%	30%
Maximum Power- Pmax (W)	473.0	494.5	516.0	537.5	554.0
Open Circuit Voltage - Voc (V)	38.60	38.70	38.80	38.80	38.90
Short- Circuit Current - Isc (A)	15.70	16.44	17.18	17.93	18.50
Voltage at Pmax -Vmp (V)	31.70	31.60	31.60	31.60	31.50
Current at Pmax - Imp (A)	14.94	15.64	16.33	17.04	17.58

I-V CURVAS CURVES

Temperatura celdas | Cells temperature: 25ºC. Current-Voltage & Power Voltage Curve (430)