

exiom

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

425-455 W

Topcon N-Type

 182 mm mono half cell

 1.722 x 1.134 mm

 19.5 kg



SMBB Technology

Better light trapping and current collection 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 Environmental Conditions

High salt mist and ammonia resistance.



Hot 2.0 Technology

The N-Type module with hot 2.0 technology has better reliability 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

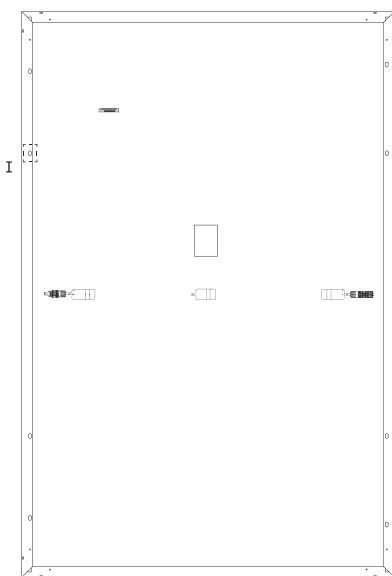
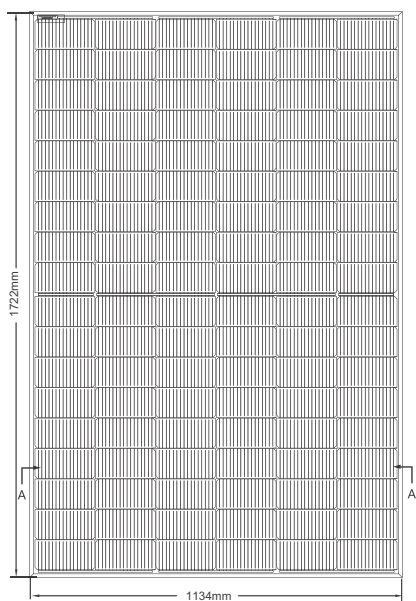


HEAD OFFICE: C/ SAN FRANCISCO, 5 - 5. 33003. OVIEDO
PHONE: +34 984 033 709 WWW.EXIOMSOLUTION.COM

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.

TIPO TYPE	EX425TC-108HC	EX430TC-108HC	EX435TC-108HC	EX440TC-108HC	EX445TC-108HC	EX450TC-108HC	EX455TC-108HC
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 Module 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	10.65	10.71	10.78	10.84	10.91	10.98
Voltaje circ. abierto Voltage open circuit, VOC (V)	36.29	36.48	36.67	36.86	36.95	37.04	37.13
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 25°C, Air Mass AM1.5 NOCT: Irradiance 800W/m², Ambient Temperature 25°C, Wind Speed 1m/s



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: 19.5 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

Coefficiente de temp. | Temp. Coefficient (P_{MAX}) -0.30%/°C

Coefficiente de temp. | Temp. Coefficient (I_{SC}) 0.043%/°C

Coefficiente de temp. | Temp. Coefficient (V_{OC}) -0.24%/°C

Nominal Operating Cell Temp. (NOCT) 41°C (±2°C)

Operating Temperature -40-+85°C

I-V CURVAS CURVES

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

