

680-700 W

Topcon N-Type

 210 mm bifacial half cell

 2.384 x 1.303 mm

 38 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



Bloomberg

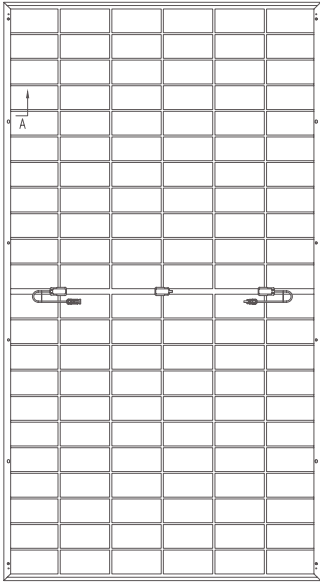
NEW ENERGY FINANCE

CERTIFIED
IEC
61730 Ed.1

CERTIFIED
IEC
61215 Ed.2

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





DATOS MECÁNICOS MECHANICAL SPECIFICATIONS

Dimensions: 2384*1303mm
N° of cells: 132 [2x(11x6)]
Cells: N type Mono-crystalline. 210mm*105mm
Front glass: 3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Connector: MC4 Compatible
Weight: 33 kg
Junction Box: IP68 Rated (3 diodes)
Frame: Anodized aluminum alloy
Cable: 4mm2
Front load: 5400Pa
Real Load: 2400Pa

TIPO TYPE	EX680MB-132BF		EX685MB-132BF		EX690MB-132BF		EX695MB-132BF		EX700MB-132BF	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Potencia de salida Power output	680	513	685	517	690	521	695	525	700	529
Voltaje circ. abierto Voltage open circuit, VOC (V)	46.50	44.37	46.69	44.56	46.88	44.75	47.07	44.94	47.26	45.13
Intensidad cortocircuito Short circuit current, ISC (A)	18.69	15.05	18.74	15.09	18.79	15.13	18.84	15.17	18.89	15.21
Voltaje máximo Max. voltage, VMP (V)	38.55	36.15	38.74	36.36	38.94	36.56	39.13	36.74	39.33	36.94
Intensidad máxima actual Current, IMP (A)	17.64	14.19	17.68	14.22	17.72	14.25	17.76	14.29	17.80	14.32
Modulo eficiencia Module Efficiency (%)	21.89		22.05		22.21		22.37		22.53	
Max. potencia tolerada Max. power tolerance (%)	(0, +5W)									
Max. system Voltage (V)	1.500Vdc (IEC/UL)									
Maximum Series Fuse Rating (A)	30A									
Bifaciality	75±5%									

*STC: Irradiance 1000W/m2, Cell Temperature 25°C, AM 1.5 | *NOCT: Irradiance 800W/m2, Ambient Temperature 20°C, Wind Speed 1m/s

COEFICIENTES DE TEMPERATURA TEMPERATURE COEFFICIENTS	BIFACIAL SALIDA BIFACIAL OUTPUT REAR SIDE POWER GAIN						
		10%	15%	20%	25%	30%	
Coefficiente de temp. Temp. Coefficient (P _{MAX})	-0.30%/°C	Power Gain	10%	15%	20%	25%	30%
Coefficiente de temp. Temp. Coefficient (ISC)	0.046%/°C	Maximum Power- P _{max} (W)	759	794	828	863	897
Coefficiente de temp. Temp. Coefficient (VOC)	-0.26%/°C	Open Circuit Voltage - Voc (V)	46.88	46.88	46.88	46.88	46.88
Operating temperature	-40~+85°C	Short- Circuit Current - I _{sc} (A)	20.67	21.61	22.55	23.49	24.43
NOCT	42±2°C	Voltage at P _{max} -V _{mp} (V)	38.94	38.94	38.94	38.94	38.94
		Current at P _{max} - I _{mp} (A)	19.49	20.38	21.26	22.15	23.04

I-V CURVAS CURVES

Temperatura celdas | Cells temperature: 25°C. Current-Voltage & Power Voltage Curve (690)

