

610-640 W

Topcon N-Type

 182 mm bifacial half cell

 2.465 x 1.134 mm

 36.4 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



Years | Años
Product
Producto



Years | Años
Linear power
Rendimiento lineal



Bloomberg

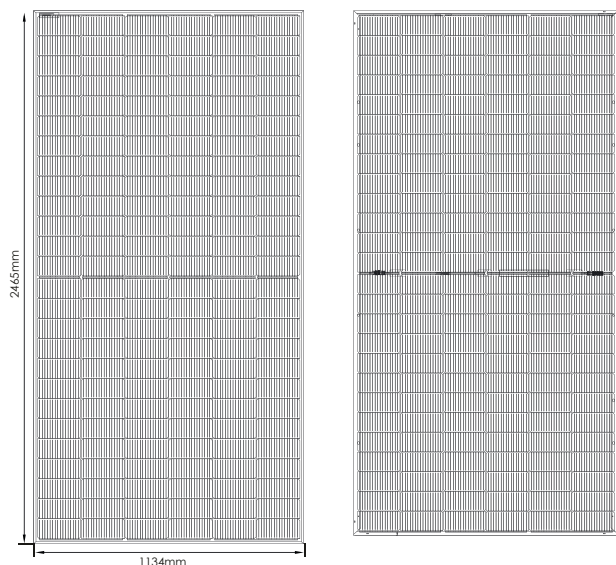
NEW ENERGY FINANCE

CERTIFIED
IEC
61730 Ed.1

CERTIFIED
IEC
61215 Ed.2

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





DATOS MECÁNICOS MECHANICAL SPECIFICATIONS

Laminate Structure: Glass/ POE/ Cells/ POE/Glass
Dimensions: 2465*1134mm
Cells: N-Type 16BB 182mm (2x78pcs)
Frame: Anodized aluminum alloy
Connector: UV Resistant Cable/Compatible MC4
Weight: 36.4 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: 4mm2

TIPO TYPE	EX610TC-156BF		EX615TC-156BF		EX620TC-156BF		EX625TC-156BF		EX630TC-156BF		EX635TC-156BF		EX640TC-156BF	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Potencia de salida Power output	610	459	615	462	620	466	625	470	630	474	635	482	640	486
Voltaje circ. abierto Voltage open circuit, VOC (V)	55.31	52.54	55.44	52.66	55.58	52.79	55.72	52.93	55.86	53.06	56.01	53.63	56.18	53.79
Intensidad cortocircuito Short circuit current, ISC (A)	14.03	11.33	14.11	11.39	14.19	11.46	14.27	11.52	14.35	11.59	14.42	11.62	14.48	11.67
Voltaje máximo Max. voltage, VMP (V)	45.6	42.35	45.77	42.46	45.93	42.57	46.1	42.68	46.26	42.79	46.42	43.72	46.59	43.87
Intensidad máxima actual Current, IMP (A)	13.38	10.83	13.44	10.89	13.5	10.95	13.56	11.01	13.62	11.07	13.68	11.03	13.74	11.12
Modulo eficiencia Module Efficiency (%)	21.82		22.00		22.18		22.36		22.54		22.71		22.89	
Max. potencia tolerada Max. power tolerance (%)	(0,+3)													
Max. system Voltage (V)	1.500Vdc (IEC)													
Maximum Series Fuse Rating (A)	30A													

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

BIFACIAL SALIDA BIFACIAL OUTPUT REAR SIDE POWER GAIN

5%	Maximum Power (Pmax)	641	646	651	656	661
	Module Efficiency STC (%)	22.93	23.11	23.30	23.46	23.64
15%	Maximum Power (Pmax)	702	707	713	719	727
	Module Efficiency STC (%)	25.11	25.30	25.50	25.72	26.00
25%	Maximum Power (Pmax)	763	769	775	781	787
	Module Efficiency STC (%)	27.29	27.51	27.72	27.93	28.15

COEFICIENTES DE TEMPERATURA TEMPERATURE COEFFICIENTS

Coeficiente de temp. Temp. Coefficient (PMAX)	-0.29%/°C
Coeficiente de temp. Temp. Coefficient (ISC)	0.04%/°C
Coeficiente de temp. Temp. Coefficient (VOC)	-0.22%/°C
Nominal Operating Cell Temp. (NOCT)	44°C (±2°C)
Operating Temperature	-40~+85°C
Refer. Bifacial Factor	80±5%
Packing Data	36 pcs/Pallet; 144(20GP); 576(40HQ)

I-V CURVAS CURVES

Temperatura celdas | Cells temperature: 25°C. Current-Voltage & Power Voltage Curve (615)

