

620-650 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

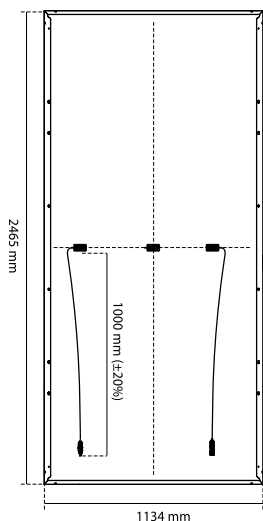
CERTIFIED
IEC
61730 Ed.1

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	EX620TC-156BF		EX625TC-156BF		EX630TC-156BF		EX635TC-156BF		EX640TC-156BF		EX645TC-156BF		EX650TC-156BF	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Potencia de salida Power output	620	466	625	470	630	473	635	477	640	481	645	484	650	488
Voltaje circ. abierto Voltage open circuit, VOC (V)	55.58	52.79	55.72	52.93	55.86	53.07	56.01	53.21	56.14	53.35	56.28	53.49	56.43	53.64
Intens. cortocircuito Short circuit current, ISC (A)	14.19	11.46	14.27	11.52	14.35	11.58	14.43	11.64	14.51	11.70	14.59	11.76	14.68	11.82
Voltaje máximo Max. voltage, VMP (V)	45.93	42.57	46.1	42.68	46.27	42.79	46.44	42.90	46.61	43.01	46.78	43.12	46.96	43.23
Intensidad máxima actual Current, IMP (A)	13.5	10.95	13.56	11.01	13.62	11.07	13.68	11.13	13.74	11.19	13.80	11.25	13.86	11.31
Modulo eficiencia Moducle Efficiency (%)	22.18		22.36		22.54		22.72		22.90		23.07		23.25	
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)	650,74	656,76	661,76	666,75	671,74	676,74	681,98
	Module Efficiency STC (%)	23,28	23,50	23,67	23,85	24,03	24,21	24,40
15%	Maximum Power (Pmax)	713,26	719,26	724,24	730,25	736,26	744,31	750,08
	Module Efficiency STC (%)	25,52	25,73	25,91	26,12	26,34	26,63	26,83
25	Maximum Power (Pmax)	774,74	781,76	787,76	793,75	799,74	805,74	811,98
	Module Efficiency STC (%)	27,72	27,97	28,18	28,40	28,61	28,82	29,05

COEFICIENTES DE TEMPERATURA TEMPERATURE COEFFICIENTS

Coefficiente de temp. Temp. Coefficient (Pmax)	-0.29%/°C
Coefficiente de temp. Temp. Coefficient (ISC)	0.04%/°C
Coefficiente 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%

I-V CURVAS CURVES

Temperatura celdas | Cells temperature: 25°C. Current-Voltage & Power Voltage Curve (650)

