

585-605 W Topcon N-Type

 182 mm bifacial half cell

 2.279 x 1.134 mm

 31.5 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/



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

Warranty | Garantía



Years |
Product
Producto



Years |
Linear power
Rendimiento lineal



Bloomberg

NEW ENERGY FINANCE

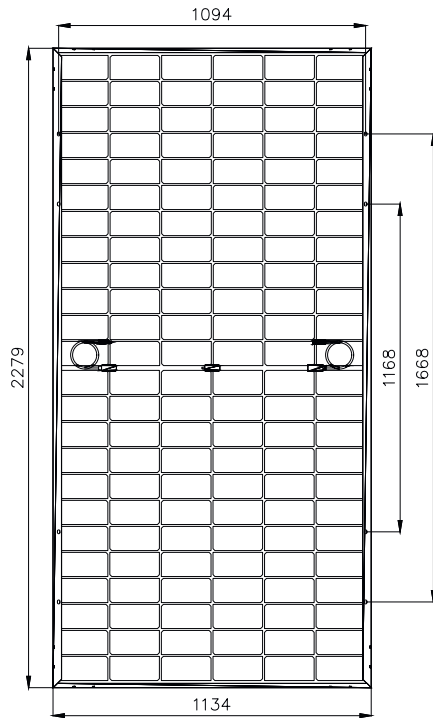
CERTIFIED
IEC
61730 Ed.1

CERTIFIED
IEC
61215 Ed.2



Anti-PID
System voltage durability
PPP 56042





DATOS MECÁNICOS MECHANICAL SPECIFICATIONS

Dimensions: 2279*1134mm

Nº of cells: 144 (6x24)

Weight: 31.5 kg

Glass: 2.0+2.0mm AR coated heat strengthened glass

Connector: MC4 Compatible

Junction Box: IP68, three diodes

Cable: 4mm², ±300mm (length can be customized)

Frame: Anodized aluminum alloy frame

PARAMETROS DE FUNCIONAMIENTO OPERATING PARAMETERS

Power Output Tolerance: 0~3%

Maximum System Voltage: 1500V

Maximum Series Fuse Rating: 25A

Protection Class: Class II

Bifaciality: 80±5%

Fire Rating: IEC Class A

PARAMETROS DE FUNCIONAMIENTO OPERATING PARAMETERS

Front Side Maximum Static Loading: 5400Pa

Rear Side Maximum Static Loading: 2400Pa

TIPO TYPE	EX585TC-144HC182BF		EX590TC-144HC182BF		EX595TC-144HC182BF		EX600TC-144HC182BF		EX605TC-144HC182BF	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Potencia de salida Maximum Power	585	444	590	448	595	451	600	455	605	459
Voltaje circ. abierto Voltage open circuit, VOC (V)	51.52	48.70	51.63	48.90	51.74	49.00	51.85	49.10	51.95	49.20
Intensidad cortocircuito Short circuit current, ISC (A)	14.30	11.55	14.38	11.62	14.46	11.68	14.54	11.74	14.62	11.81
Voltaje máximo Max. voltage, VMP (V)	43.33	40.50	43.44	40.70	43.55	40.80	43.66	40.90	43.76	41.00
Intensidad máxima actual Current, IMP (A)	13.51	10.94	13.59	11.00	13.66	11.05	13.74	11.12	13.83	11.20
Modulo eficiencia Module Efficiency (%)	22.6		22.8		23.0		23.2		23.4	

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

Maximum Power(Pmax/W)	638	644	649	654	660
Open Circuit Voltage (Voc/V)	51.60	51.70	51.80	51.90	52.00
Short Circuit Current (Isc/A)	15.64	15.73	15.82	15.91	16.00
Maximum Power Voltage (Vmp/V)	43.33	43.44	43.55	43.66	43.76
Maximum Power Current (Imp/A)	14.72	14.83	14.90	14.98	15.08

*Rear side power gain:The additional gain from the rear side compared to the power of the front side at the standard test condition.It depends on mounting (structure,height,tilt angle etc.)and albedo of the ground.

COEFICIENTES DE TEMPERATURA TEMPERATURE COEFFICIENTS

Coeficiente de temp. Temp. Coefficient (PMAX)	-0.28%/°C
Coeficiente de temp. Temp. Coefficient (ISC)	0.04%/°C
Coeficiente de temp. Temp. Coefficient (VOC)	-0.23%/°C
Nominal Operating Cell Temp. (NOCT)	45°C (±2°C)
Operating Temperature	-40~+85°C

I-V CURVAS CURVES

Temperatura celdas | Cells temperature: 25°C. Current-Voltage & Power Voltage Curve (605)

