









# Sable 580-595w

High efficiency bifacial modules

**TOPCon 182mm**

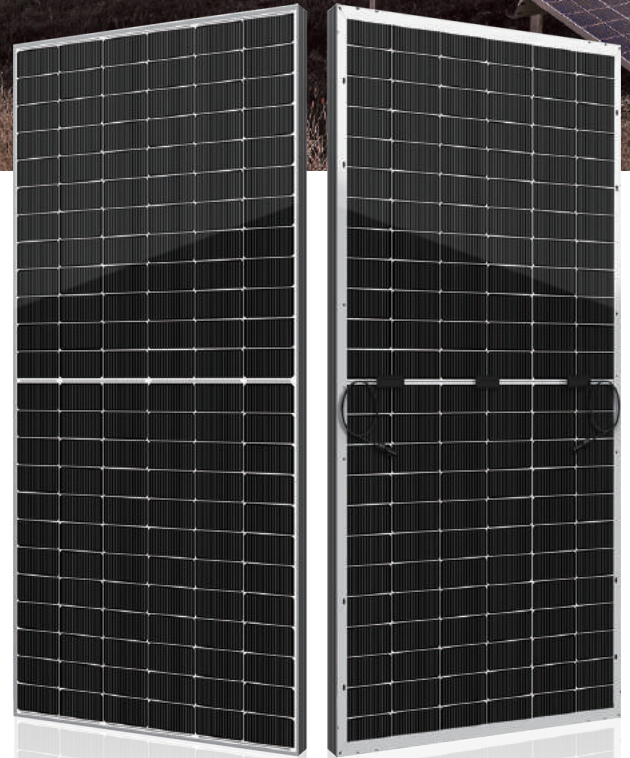
## • TOPCon MODULE ADVANTAGE

-  Multi-Busbar technology
-  Superior load capacity
-  High module efficiency
-  Excellent low-light performance
-  Lower annual attenuation  
Longer warranty
-  Low BOS and LCOE
-  Reduce hot spot effect
-  Higher bifaciality

## • QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001

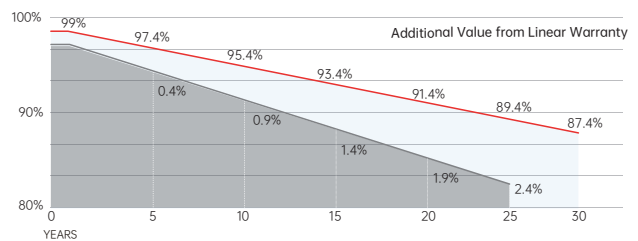
## • PRODUCT CERTIFICATION



## • INSURANCE

**PICC**

## • WARRANTY



**15 YEARS** Guarantee on product material and workmanship

**30 YEARS** Linear power output warranty



**SERAPHIM ENERGY GROUP CO., LTD.**

Add: NO.18, Shichuan Road, Jinzhai Economic Development Zone, Lu'an City, Anhui Province  
Tel: +86-564-7736177 Email: info@seraphim-energy.com

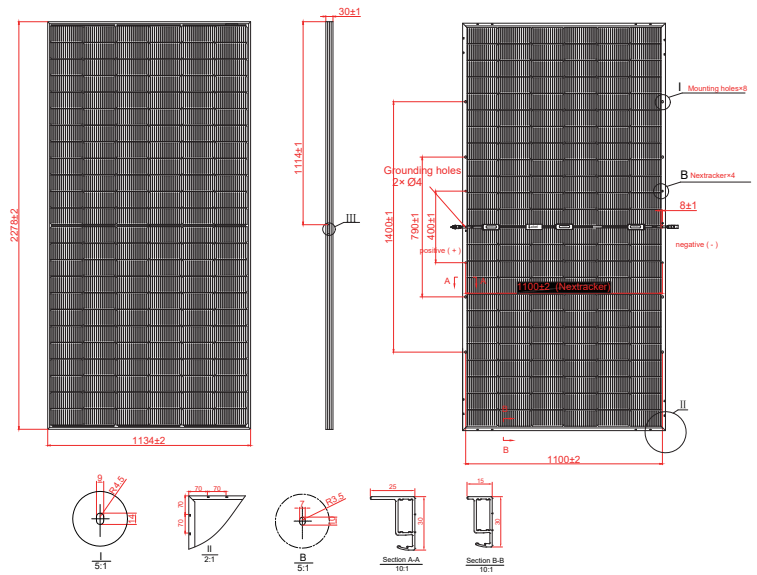
## Mechanical Specifications

External Dimension	2278 x 1134 x 30 mm
Weight	32.0 kg
Solar Cells	TOPCon 182 x 91mm (144pcs)
Front / Back Glass	2.0mm AR coating semi-tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables	4.0mm <sup>2</sup> , 250mm(+)/350mm(-) or Customized Length

## Packing Configuration

Container	20'GP	40'HQ
Pieces per Pallet	36	36
Pallets per Container	4	20
Pieces per Container	144	720

## Technical drawing



## Electrical Characteristics

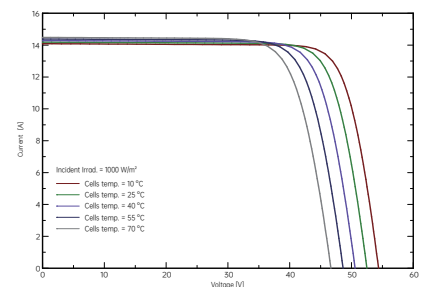
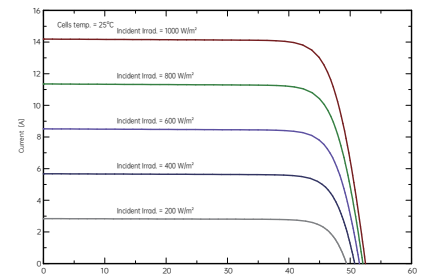
Module Type	SRP-580-BTA-BG			SRP-585-BTA-BG			SRP-590-BTA-BG			SRP-595-BTA-BG		
	Front STC	Front BNPI	Back STC	Front STC	Front BNPI	Back STC	Front STC	Front BNPI	Back STC	Front STC	Front BNPI	Back STC
Maximum Power -P <sub>mp</sub> (W)	580	636	464	585	641	468	590	647	472	595	652	476
Open Circuit Voltage -V <sub>oc</sub> (V)	52.10	52.18	52.08	52.30	52.38	52.28	52.50	52.58	52.48	52.70	52.78	52.68
Short Circuit Current -I <sub>sc</sub> (A)	14.07	15.42	11.26	14.13	15.49	11.30	14.19	15.55	11.35	14.25	15.62	11.40
Maximum Power Voltage -V <sub>mp</sub> (V)	43.40	43.48	43.38	43.60	43.68	43.58	43.80	43.88	43.78	44.00	44.08	43.98
Maximum Power Current -I <sub>mp</sub> (A)	13.37	14.62	10.70	13.43	14.68	10.75	13.48	14.74	10.79	13.54	14.79	10.82
Module Efficiency STC-η <sub>m</sub> (%)	22.45			22.65			22.84			23.03		
Power Tolerance (W)							(0, +4.99)					
Pmax Temperature Coefficient							-0.29 %/°C					
Voc Temperature Coefficient							-0.25 %/°C					
Isc Temperature Coefficient							+0.046 %/°C					

STC: Irradiance 1000 W/m<sup>2</sup> module temperature 25°C AM=1.5 Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-3%; Current measurement tolerance: +/-4%  
BNPI: front 1000 W/m<sup>2</sup> rear 135 W/m<sup>2</sup> Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-3%; Current measurement tolerance: +/-4%

## Rear Side Power Gain( SRP-585-BTA-BG )

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P <sub>mp</sub> (W)	644	673	702	731	761
Open Circuit Voltage -V <sub>oc</sub> (V)	52.30	52.30	52.30	52.30	52.30
Short Circuit Current -I <sub>sc</sub> (A)	15.54	16.25	16.96	17.66	18.37
Maximum Power Voltage -V <sub>mp</sub> (V)	43.60	43.60	43.60	43.60	43.60
Maximum Power Current -I <sub>mp</sub> (A)	14.77	15.44	16.12	16.79	17.46

## I-V Curve



## Application Conditions

Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25 A
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature	45±2 °C
Bifaciality	80%±5%
Mechanical Load	Front side 5400 Pa / Back side 2400 Pa

Specifications are subject to change without further notification SRP-DS-EN-2024V1.4 © Copyright 2024 Seraphim



SERAPHIM ENERGY GROUP CO., LTD.

Add: NO.18, Shichuan Road, Jinzhai Economic Development Zone, Lu'an City, Anhui Province  
Tel: +86-564-7736177 Email: info@seraphim-energy.com