









# Sable

## 465-480W

High efficiency bifacial modules

**TOPCon 182\*199mm**

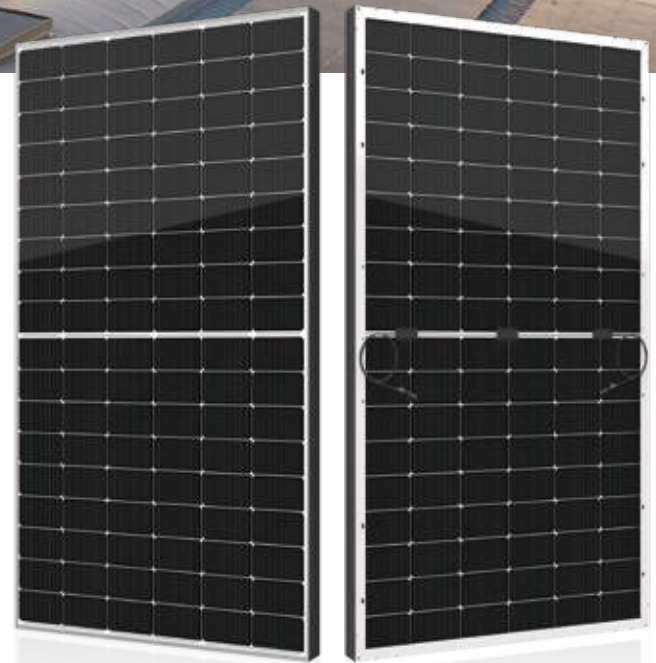
• **TOPCon MODULE ADVANTAGE**

-  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

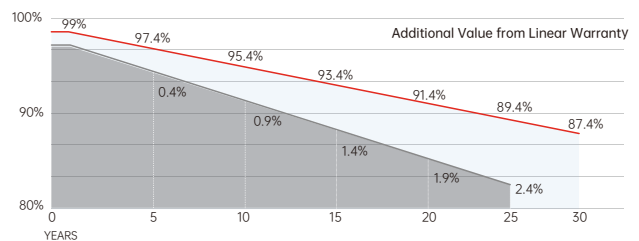
• **PRODUCT CERTIFICATION**



• **INSURANCE**



• **WARRANTY**



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

**30 YEARS** Linear power output warranty



**Jiangsu Seraphim Solar System Co., Ltd.**

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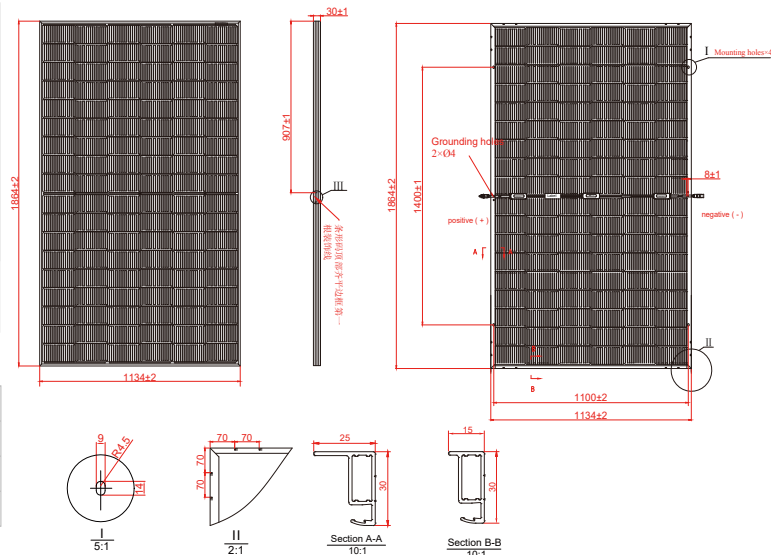
## Mechanical Specifications

External Dimension	1864 x 1134 x 30 mm
Weight	27.0 kg
Solar Cells	TOPCon 182 x 99.5mm (108pcs)
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
Connector	Genuine MC4 EVO2/Zerun Z4S-abcde/QC Solar QC4.10-cds
Fire Safety Class	Class A

## Packing Configuration

Container	20'GP	40'HQ
Pieces per Pallet	36	36
Pallets per Container	6	24
Pieces per Container	216	864

## Technical drawing



## Electrical Characteristics

Module Type	SRP-465-BTD-BG			SRP-470-BTD-BG			SRP-475-BTD-BG			SRP-480-BTD-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)	465	515	372	470	521	376	475	526	380	480	532	384
Open Circuit Voltage -V <sub>oc</sub> (V)	39.15	39.23	39.13	39.35	39.43	39.33	39.55	39.63	39.53	39.75	39.83	39.73
Short Circuit Current -I <sub>sc</sub> (A)	15.06	16.69	12.05	15.11	16.74	12.09	15.16	16.80	12.13	15.21	16.85	12.17
Maximum Power Voltage -V <sub>mp</sub> (V)	32.70	32.78	32.68	32.90	32.98	32.88	33.10	33.18	33.08	33.30	33.38	33.28
Maximum Power Current -I <sub>mp</sub> (A)	14.22	15.72	11.38	14.29	15.79	11.43	14.35	15.86	11.48	14.42	15.93	11.54
Module Efficiency STC-η <sub>m</sub> (%)	22.00			22.24			22.47			22.71		
Power Measurement Tolerance	± 3%											
Power Sorting Tolerance (W)	-5W ~ +5W											
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: +/-3%

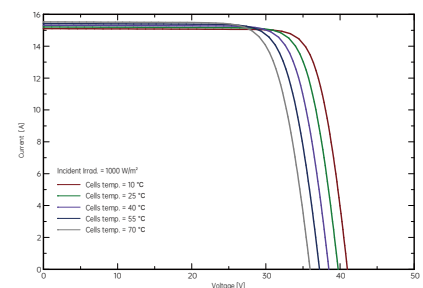
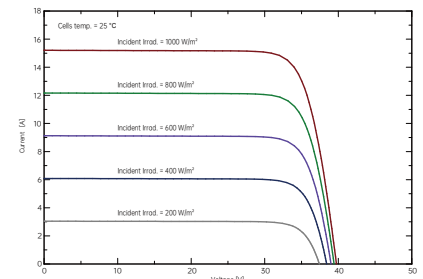
## Rear Side Power Gain( SRP-480-BTD-BG )

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P <sub>mp</sub> (W)	528	552	576	600	624
Open Circuit Voltage -V <sub>oc</sub> (V)	39.75	39.75	39.75	39.75	39.75
Short Circuit Current -I <sub>sc</sub> (A)	16.73	17.49	18.25	19.01	19.77
Maximum Power Voltage -V <sub>mp</sub> (V)	33.30	33.30	33.30	33.30	33.30
Maximum Power Current -I <sub>mp</sub> (A)	15.86	16.58	17.30	18.03	18.75

## 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

## I-V Curve



Specifications are subject to change without further notification SRP-DS-EN-2024T0606© Copyright 2024 Seraphim



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