

Sable 495-510w

High efficiency bifacial modules

TOPCon 182*210mm

● **TOPCon MODULE ADVANTAGE**



Multi-Busbar technology



Superior load capacity



High module efficiency



Excellent low-light performance



Lower annual attenuation
Longer warranty



Low BOS and LOCE cost



Reduce hot spot effect



Higher bifaciality

● **QUALITY SYSTEM**

ISO9001 / ISO14001 / ISO45001

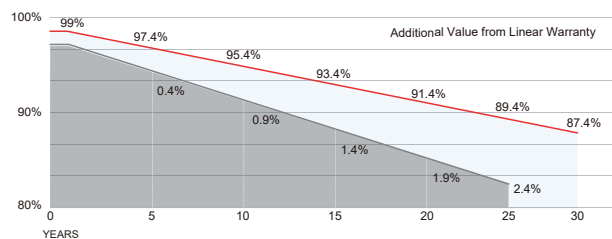
● **PRODUCT CERTIFICATION**



● **INSURANCE**

PICC

● **WARRANTY**



Guarantee on product material and workmanship



Linear power output warranty



SERAPHIM ENERGY GROUP CO., LTD.

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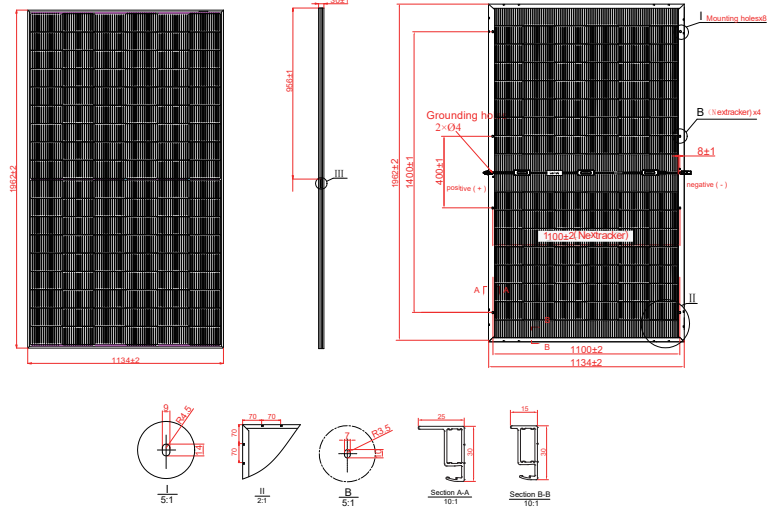
Mechanical Specifications

External Dimension	1962 x 1134 x 30 mm
Weight	27.8 kg
Solar Cells	TOPCon 182 x 105mm (108 pcs)
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 ² , 250mm(+)/350mm(-) or Customized Length

Packing Configuration

Container	20'GP	40'HQ
Pieces per Pallet	36	36
Pallets per Container	5	22
Pieces per Container	180	792

Technical drawing



Electrical Characteristics

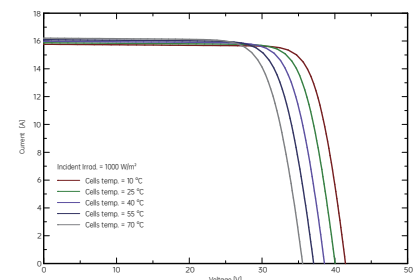
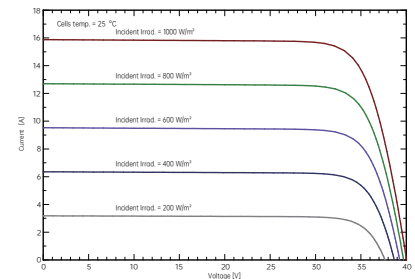
Module Type	SRP-495-BTD-BG			SRP-500-BTD-BG			SRP-505-BTD-BG			SRP-510-BTD-BG		
	Front STC	Front BNPI	Back STC	Front STC	Front BNPI	Back STC	Front STC	Front BNPI	Back STC	Front STC	Front BNPI	Back STC
Maximum Power $-P_{mp}$ (W)	495	548	396	500	554	400	505	560	404	510	565	408
Open Circuit Voltage $-V_{oc}$ (V)	39.83	39.91	39.81	40.03	40.11	40.01	40.23	40.31	40.21	40.43	40.51	40.41
Short Circuit Current $-I_{sc}$ (A)	15.83	17.54	12.66	15.88	17.60	12.70	15.93	17.65	12.74	15.98	17.71	12.78
Maximum Power Voltage $-V_{mp}$ (V)	33.11	33.19	33.09	33.31	33.39	33.29	33.51	33.59	33.49	33.71	33.79	33.69
Maximum Power Current $-I_{mp}$ (A)	14.96	16.52	11.97	15.02	16.59	12.02	15.07	16.66	12.06	15.13	16.72	12.11
Module Efficiency STC- η_m (%)	22.25			22.47			22.70			22.92		
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/m² module temperature 25°C AM=1.5 Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-3%; Current measurement tolerance: +/-4%
 BNPI: front 1000 W/m² rear 135 W/m² Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-3%; Current measurement tolerance: +/-3%

Rear Side Power Gain(SRP-500-BTD-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power $-P_{mp}$ (W)	550	575	600	625	650
Open Circuit Voltage $-V_{oc}$ (V)	40.03	40.03	40.03	40.03	40.03
Short Circuit Current $-I_{sc}$ (A)	17.47	18.26	19.06	19.85	20.64
Maximum Power Voltage $-V_{mp}$ (V)	33.31	33.31	33.31	33.31	33.31
Maximum Power Current $-I_{mp}$ (A)	16.52	17.27	18.02	18.78	19.53

I-V Curve



Application Conditions

Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30 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-20240712 © Copyright 2024 Seraphim



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