

Sable 495-520w

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 LCOE



Reduce hot spot effect



Higher bifaciality

• QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001

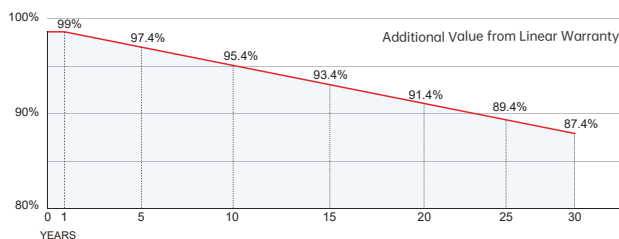
• PRODUCT CERTIFICATION



• INSURANCE

PICC

• WARRANTY



Guarantee on product material and workmanship



Linear power output warranty



SERAPHIM ENERGY GROUP CO., LTD.

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	1962 x 1134 x 30 mm
Weight	30.6 kg
Solar Cells	TOPCon 182 x 105mm (108 pcs)
Front / Back Glass	2.5/2.0mm AR coating semi-tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables	4.0mm², 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

Electrical Characteristics

Module Type	SRP-495-BTD-BG		SRP-500-BTD-BG		SRP-505-BTD-BG		SRP-510-BTD-BG		SRP-515-BTD-BG		SRP-520-BTD-BG	
	Front STC	Front BNPI	Front STC	Front BNPI	Front STC	Front BNPI	Front STC	Front BNPI	Front STC	Front BNPI	Front STC	Front BNPI
Maximum Power - P_{mp} (W)	495	548	500	554	505	560	510	565	515	571	520	576
Open Circuit Voltage - V_{oc} (V)	39.83	39.91	40.03	40.11	40.23	40.31	40.43	40.51	40.63	40.71	40.83	40.91
Short Circuit Current - I_{sc} (A)	15.83	17.54	15.88	17.60	15.93	17.65	15.98	17.71	16.03	17.76	16.08	17.82
Maximum Power Voltage - V_{mp} (V)	33.11	33.19	33.31	33.39	33.51	33.59	33.71	33.79	33.91	33.99	34.11	34.19
Maximum Power Current - I_{mp} (A)	14.96	16.52	15.02	16.59	15.07	16.66	15.13	16.72	15.19	16.79	15.25	16.85
Module Efficiency STC- η_m (%)	22.25		22.47		22.70		22.92		23.15		23.37	
Power Tolerance (W)	(0, +4.99)											

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: +/-4%

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

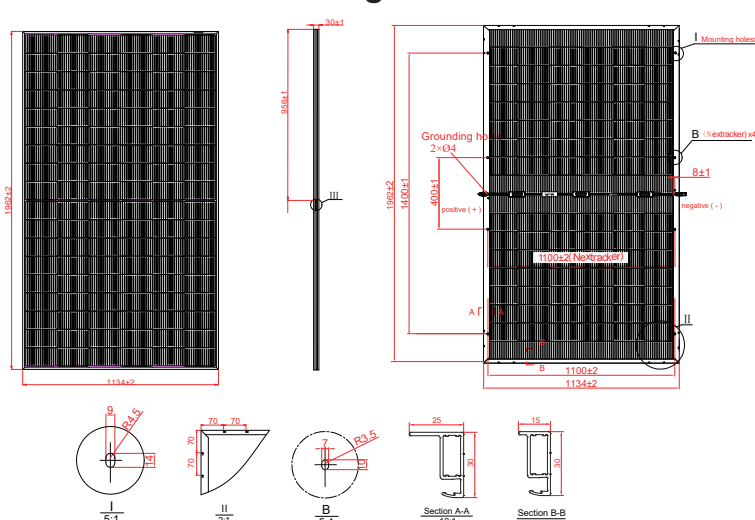
Temperature Ratings

Pmax Temperature Coefficient	-0.29 %/°C
Voc Temperature Coefficient	-0.25 %/°C
Isc Temperature Coefficient	+0.046 %/°C

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
Hail Test	HW4 40mm

Technical drawing



I-V Curve

