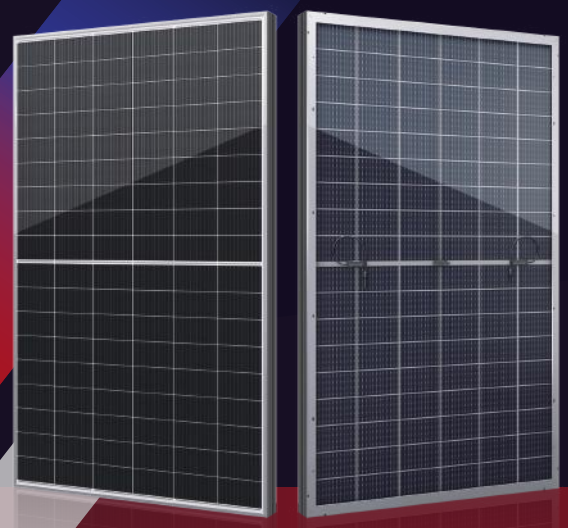
SERAPHIM®

SHIFTING·THE FUTURE
www.seraphim-energy.com

SV SERIES

Seize the Moment, Leading the Efficiency

535-550W



SV SERIES

Seraphim redefined the high-efficiency module series by integrating 210mm silicon wafers with multi-busbar and half-cut cell technologies. Seraphim panel combined creative technology effectively and extremely improved the module efficiency and power output.

KEY FEATURES

- Less mismatch to get more power
- Less power loss by minimizing the shading impact
- Competitive low light performance
- 3 times EL test to ensure best quality
- Ideal choice for utility and commercial scale projects by reduced BoS and improved ROI

QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001

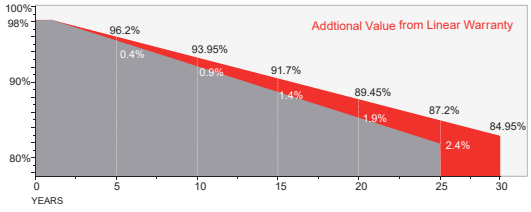
PRODUCT CERTIFICATION

TÜV SÜD | CE | PV CYCLE | CLEAN ENERGY COUNCIL MEMBER | CEC

INSURANCE

PICC

WARRANTY



15 YEARS Guarantee on product material and workmanship

30 YEARS Linear power output warranty

SERAPHIM SOLAR SYSTEM CO., LTD

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SERAPHIM® *Made In China*

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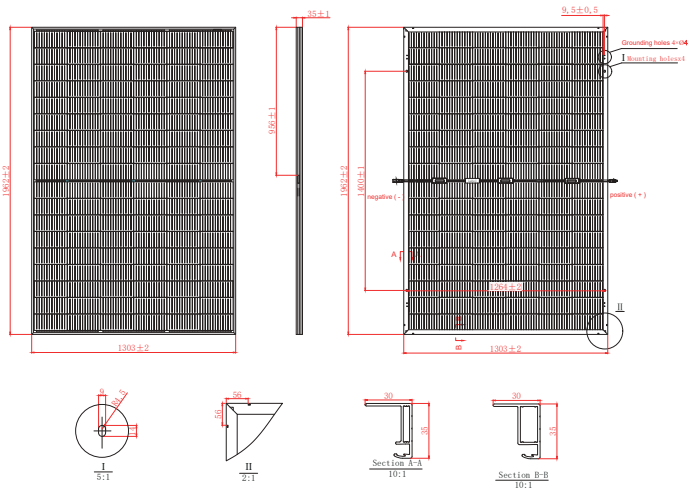
Mechanical Specifications

External Dimension	1962 x 1303 x 35 mm
Weight	31.5 kg
Solar Cells	PERC Mono crystalline(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	4.0mm², 250mm(+)/350mm(-) or Customized Length
Connector	Staubli MC4 EVO2/Cuangda TT02 / Renhe 05-8
Fire Safety Class	Class A

Technical drawing



* All Dimensions in mm

Packing Configuration

Container	40'HQ
Pieces per Pallet	31
Pallets per Container	17
Pieces per Container	527

Electrical Characteristics

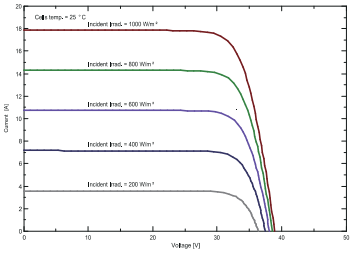
Module Type	SRP-535-BMD-BG			SRP-540-BMD-BG			SRP-545-BMD-BG			SRP-550-BMD-BG		
STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC
Maximum Power -P_{mp} (W)	535	402	375	540	405	378	545	409	382	550	413	385
Open Circuit Voltage -V_{oc} (V)	38.90	36.33	38.60	39.10	36.53	38.80	39.30	36.71	39.00	39.50	36.90	39.20
Short Circuit Current -I_{sc} (A)	17.89	14.47	12.61	17.94	14.50	12.65	17.99	14.54	12.68	18.04	14.58	12.72
Maximum Power Voltage -V_{mp} (V)	31.55	29.46	31.54	31.77	29.67	31.76	31.99	29.84	31.98	32.21	30.02	32.20
Maximum Power Current -I_{mp} (A)	16.96	13.63	11.89	17.00	13.66	11.91	17.04	13.70	11.95	17.08	13.75	11.96
Module Efficiency STC-η_m (%)	20.93			21.12			21.32			21.51		
Power Tolerance（W）	(0, +4.99)											
Pmax Temperature Coefficient	-0.34 %/°C											
Voc Temperature Coefficient	-0.27 %/°C											
Isc Temperature Coefficient	+0.05 %/°C											

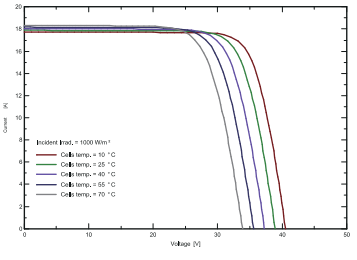
STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5 Power measurement tolerance: +/-3%;Voltage measurement tolerance: +/-2%;Current measurement tolerance: +/-4%
NOCT: Irradiance 800 W/m² ambient temperature 20°C wind speed :1m/s Power measurement tolerance: +/-3%;Voltage measurement tolerance: +/-2%;Current measurement tolerance: +/-4%

Rear Side Power Gain(SRP-540-BMD-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P_{mp} (W)	594	621	648	675	702
Open Circuit Voltage -V_{oc} (V)	39.10	39.10	39.10	39.10	39.10
Short Circuit Current -I_{sc} (A)	19.73	20.63	21.53	22.43	23.32
Maximum Power Voltage -V_{mp} (V)	31.77	31.77	31.77	31.77	31.77
Maximum Power Current -I_{mp} (A)	18.70	19.55	20.40	21.25	22.10

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	70%±10%
Mechanical Load	Front side 5400 Pa / Back side 2400 Pa

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