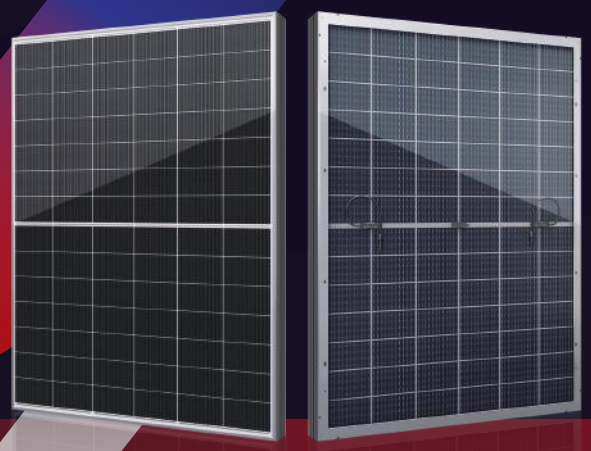
SERAPHIM®

SHIFTING·THE FUTURE
www.seraphim-energy.com

SV SERIES

Seize the Moment, Leading the Efficiency

415-430W



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

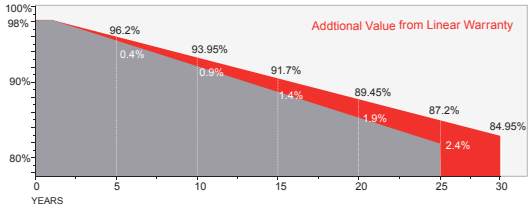
PRODUCT CERTIFICATION

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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Tel: +86-519-68788166 Email: info@seraphim-energy.com

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Made In China

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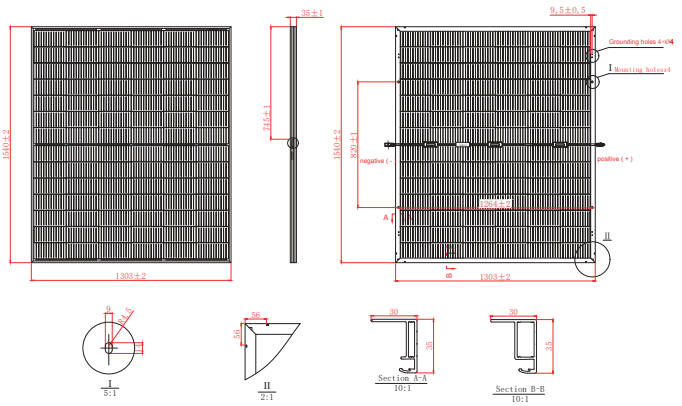
Mechanical Specifications

External Dimension	1540 x 1303 x 35 mm
Weight	24.5 kg
Solar Cells	PERC Mono crystalline(84 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
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

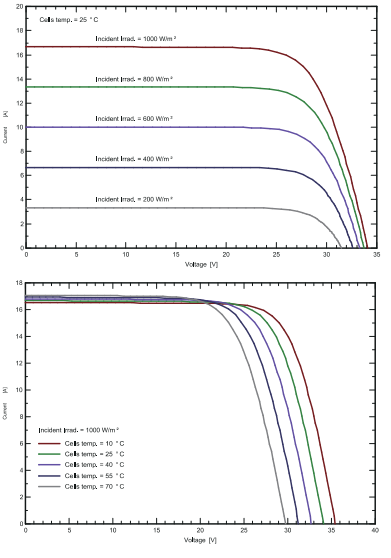
Module Type	SRP-415-BMF-BG			SRP-420-BMF-BG			SRP-425-BMF-BG			SRP-430-BMF-BG		
STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC
Maximum Power -P_{mp} (W)	415	315	291	420	318	294	425	322	298	430	326	301
Open Circuit Voltage -V_{oc} (V)	34.10	31.85	33.80	34.30	32.03	34.00	34.50	32.22	34.20	34.70	32.41	34.40
Short Circuit Current -I_{sc} (A)	16.69	13.50	11.77	16.74	13.53	11.80	16.79	13.57	11.84	16.84	13.61	11.87
Maximum Power Voltage -V_{mp} (V)	25.94	25.10	25.94	26.19	25.28	26.18	26.44	25.48	26.44	26.68	25.66	26.67
Maximum Power Current -I_{mp} (A)	16.00	12.55	11.22	16.04	12.59	11.23	16.08	12.64	11.28	16.12	12.69	11.29
Module Efficiency STC-η_m (%)	20.68			20.93			21.18			21.43		
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-420-BMF-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P_{mp} (W)	462	483	504	525	546
Open Circuit Voltage -V_{oc} (V)	34.30	34.30	34.30	34.30	34.30
Short Circuit Current -I_{sc} (A)	18.41	19.25	20.09	20.93	21.76
Maximum Power Voltage -V_{mp} (V)	26.19	26.19	26.19	26.19	26.19
Maximum Power Current -I_{mp} (A)	17.64	18.45	19.25	20.05	20.85

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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