SERAPHIM®

SHIFTING·THE FUTURE
www.seraphim-energy.com

SII SERIES
Cuts Night, Breaks Dawn

425-440W

SII SERIES
Seraphim redefined the high-efficiency module series by integrating 158.75mm silicon wafers with PERC and half-cut cell technologies. Seraphim panel combined creative technology effectively and extremely improved the module efficiency and power out.

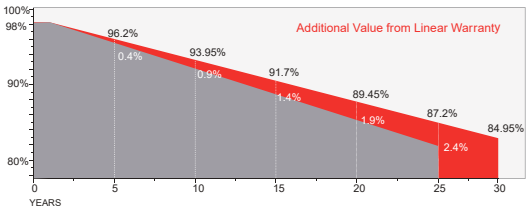
KEY FEATURES
- Less mismatch to get more power
- Less power loss by minimizing the shading impact
- Competitive low light performance
- 3 times EL test to ensure best quality
- Ideal choice for utility and commercial scale projects by reduced BoS and improved ROI
- PVEL Outstanding reliability proven by PVEL for stringent environment condition:
  - Sand, acid, salt, and hail stones
  - 2400 Pa wind load and 5400 Pa snow load
  - Anti-PID

QUALITY SYSTEM
ISO9001 / ISO14001 / ISO45001

PRODUCT CERTIFICATION
TÜV SÜD | CE | PV CYCLE | CLEAN ENERGY COUNCIL MEMBER | CQC

INSURANCE
PICC

WARRANTY



15 YEARS — Guarantee on product material and workmanship

30 YEARS — Linear power output warranty

JIANGSU SERAPHIM SOLAR SYSTEM CO., LTD

Add: No.10, TongshunRd, HenglinTown, Wujin District, 213000, Changzhou, China
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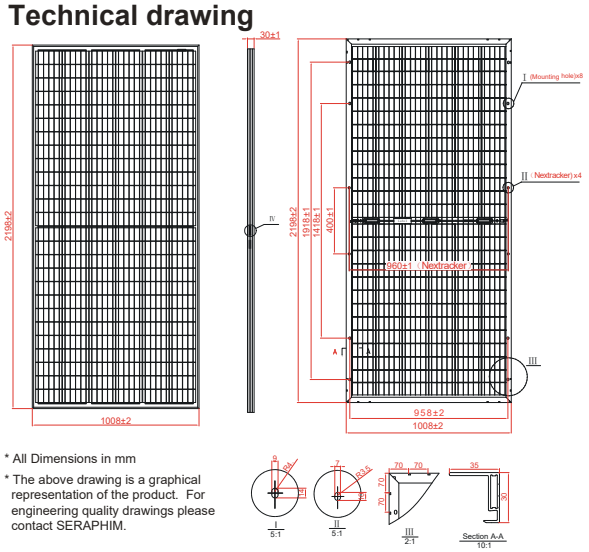
Technical drawing



* All Dimensions in mm
* The above drawing is a graphical representation of the product. For engineering quality drawings please contact SERAPHIM.

Mechanical Specifications

External Dimension	2198 x 1008 x 30 mm
Weight	28.5 kg
Solar Cells	PERC Mono (156 pcs)
Front / Back Glass	2.0mm AR coating semi-tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables	4.0 mm², 250mm(+)/350mm(-) or Customized Length

Packing Configuration

Container	40'HQ
Pieces per Pallet	32
Pallets per Container	20
Pieces per Container	640

Electrical Characteristics

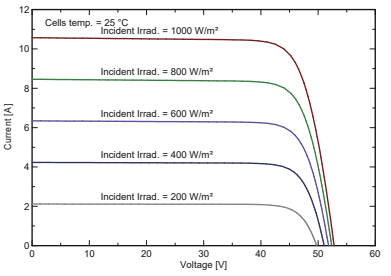
Module Type	SRP-425-BMZ-BG			SRP-430-BMZ-BG			SRP-435-BMZ-BG			SRP-440-BMZ-BG		
STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC
Maximum Power -P_{mp} (W)	425	322	298	430	325	301	435	329	305	440	332	308
Open Circuit Voltage -V_{oc} (V)	53.0	49.4	52.8	53.2	49.6	52.9	53.4	49.8	53.1	53.5	49.9	53.3
Short Circuit Current -I_{sc} (A)	10.17	8.22	7.17	10.24	8.28	7.22	10.33	8.35	7.28	10.40	8.41	7.33
Maximum Power Voltage -V_{mp} (V)	43.8	41.3	43.5	44.0	41.5	43.6	44.2	41.6	43.8	44.4	41.8	44.1
Maximum Power Current -I_{mp} (A)	9.71	7.78	6.86	9.78	7.83	6.91	9.85	7.90	6.97	9.91	7.95	6.99
Module Efficiency STC-η_m (%)	19.18			19.41			19.63			19.86		
Power Tolerance（W）	(0, +4.99)											
Pmax Temperature Coefficient	-0.34 %/°C											
Voc Temperature Coefficient	-0.26 %/°C											
Isc Temperature Coefficient	+0.05 %/°C											

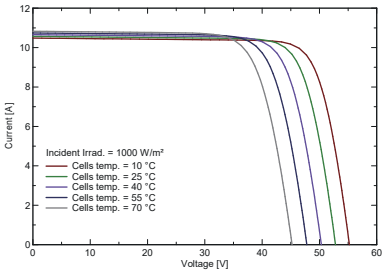
STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5
Power measurement tolerance: +/-3%

Rear Side Power Gain(SRP-440-BMZ-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P_{mp} (W)	484	506	528	550	572
Open Circuit Voltage -V_{oc} (V)	53.5	53.5	53.5	53.5	53.5
Short Circuit Current -I_{sc} (A)	11.44	11.96	12.48	13.00	13.52
Maximum Power Voltage -V_{mp} (V)	44.4	44.4	44.4	44.4	44.4
Maximum Power Current -I_{mp} (A)	10.92	11.40	11.90	12.39	12.89

I-V Curve





Application Conditions

Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	20 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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