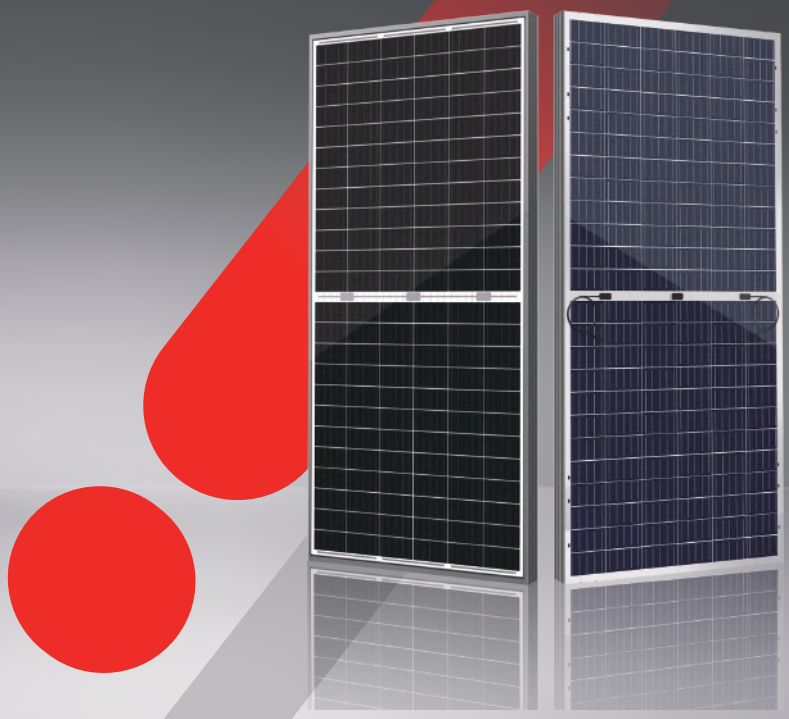
SERAPHIM®

SHIFTING·THE FUTURE
www.seraphim-energy.com

SII SERIES
Cuts Night, Breaks Dawn

390-405W



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.

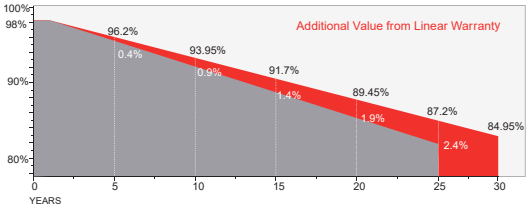
KEY FEATURES
- Less mismatch to get more power
- Less power loss by minimizing the shading impact
- Competitive low light performance
- 3 times EL test to ensure best quality
- Ideal choice for utility and commercial scale projects by reduced BoS and improved ROI
- PVEL — Outstanding reliability proven 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
TUV | CE | PV CYCLE | CLEAN ENERGY COUNCIL MEMBER | CGC

INSURANCE
PICC

WARRANTY



15 YEARS — Guarantee on product material and workmanship

30 YEARS — Linear power output warranty

JIANGSU SERAPHIM SOLAR SYSTEM CO., LTD

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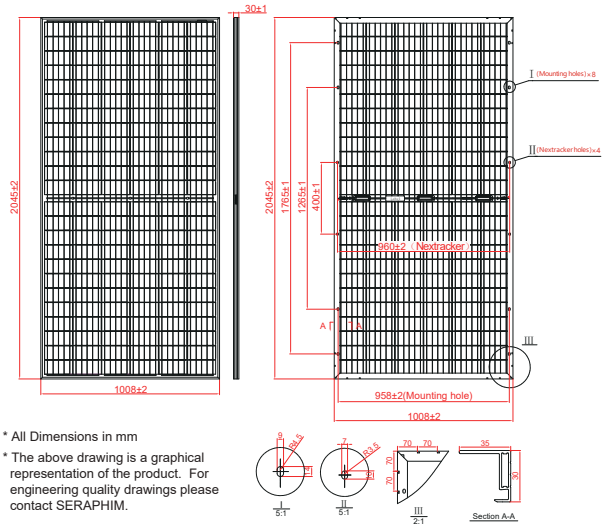
Technical drawing



* 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	2045 x 1008 x 30 mm
Weight	26.5 kg
Solar Cells	PERC Mono (144 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	22
Pieces per Container	704

Electrical Characteristics

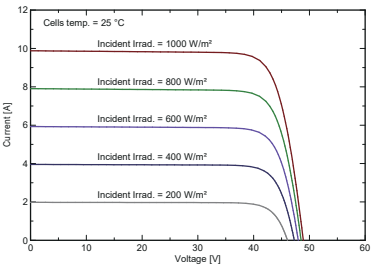
Module Type	SRP-390-BMA-BG			SRP-395-BMA-BG			SRP-400-BMA-BG			SRP-405-BMA-BG		
	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC
Maximum Power -P_{mp} (W)	390	291	273	395	295	277	400	299	280	405	303	284
Open Circuit Voltage -V_{oc} (V)	49.1	45.4	48.7	49.3	45.6	48.9	49.5	45.8	49.1	49.7	46.0	49.3
Short Circuit Current -I_{sc} (A)	9.96	8.04	7.02	10.04	8.11	7.08	10.12	8.16	7.14	10.19	8.20	7.19
Maximum Power Voltage -V_{mp} (V)	41.3	38.2	41.4	41.5	38.4	41.6	41.7	38.7	41.8	41.9	39.0	42.0
Maximum Power Current -I_{mp} (A)	9.45	7.63	6.60	9.52	7.70	6.66	9.60	7.75	6.70	9.67	7.79	6.77
Module Efficiency STC-η_m(%)	18.92			19.16			19.40			19.65		
Power Tolerance（W）	(0, +4.99)											
Pmax Temperature Coefficient	-0.34 %/°C											
Voc Temperature Coefficient	-0.26 %/°C											
Isc Temperature Coefficient	+0.05 %/°C											

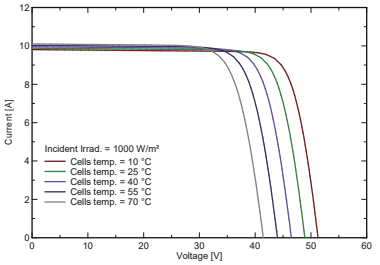
STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5
Power measurement tolerance: +/-3%

Rear Side Power Gain(SRP-400-BMA-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P_{mp} (W)	440	460	480	500	520
Open Circuit Voltage -V_{oc} (V)	49.5	49.5	49.5	49.5	49.5
Short Circuit Current -I_{sc} (A)	11.14	11.65	12.15	12.65	13.15
Maximum Power Voltage -V_{mp} (V)	41.7	41.7	41.7	41.7	41.7
Maximum Power Current -I_{mp} (A)	10.56	11.04	11.52	11.99	12.47

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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