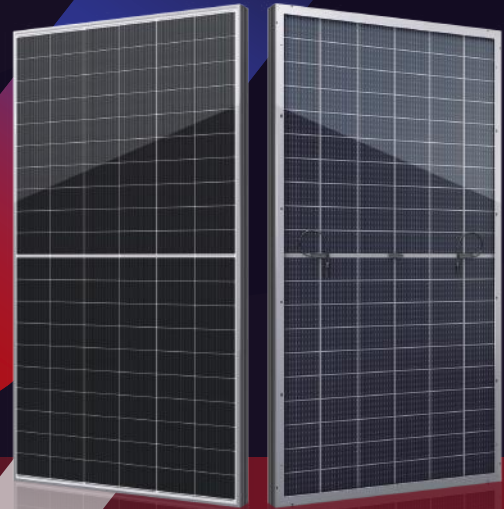


SV SERIES

Seize the Moment, Leading the Efficiency







595-610W



● 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
-  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

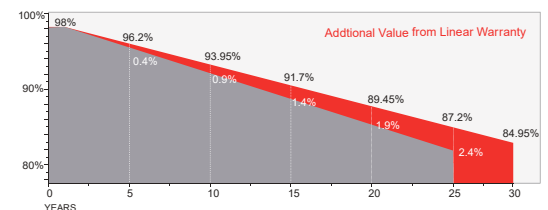
● PRODUCT CERTIFICATION



● INSURANCE

PICC

● WARRANTY



Guarantee on product material and workmanship



Linear power output warranty



SERAPHIM ENERGY GROUP CO., LTD.

Add: Intersection of baimafeng road and Weimin Road, Jinzhai County, Lu'an City, Anhui Province
 Tel: +86-0564-7736177 Email: info@seraphim-energy.com

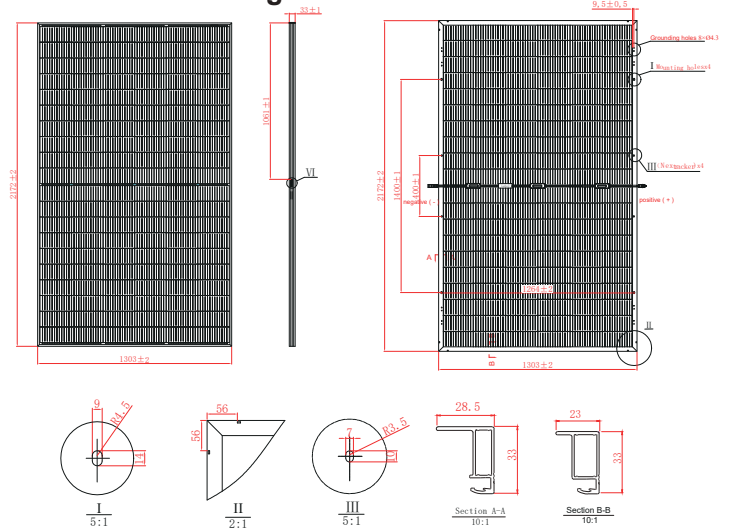
Mechanical Specifications

| | |
|--------------------|---|
| External Dimension | 2172 x 1303 x 33 mm |
| Weight | 35.1 kg |
| Solar Cells | PERC Mono crystalline(120 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 |

Packing Configuration

| | |
|-----------------------|-------|
| Container | 40'HQ |
| Pieces per Pallet | 33 |
| Pallets per Container | 17 |
| Pieces per Container | 561 |

Technical drawing



Electrical Characteristics

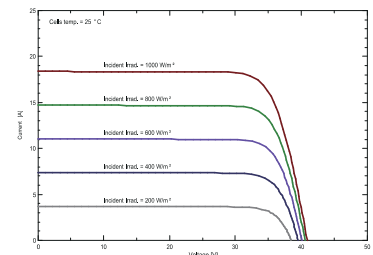
| Module Type | SRP-595-BMB-BG | | | SRP-600-BMB-BG | | | SRP-605-BMB-BG | | | SRP-610-BMB-BG | | |
|--|----------------|------------|----------|----------------|------------|----------|----------------|------------|----------|----------------|------------|----------|
| | Front STC | Front NOCT | Back STC | Front STC | Front NOCT | Back STC | Front STC | Front NOCT | Back STC | Front STC | Front NOCT | Back STC |
| Maximum Power -P _{mp} (W) | 595 | 446 | 417 | 600 | 450 | 420 | 605 | 454 | 424 | 610 | 458 | 427 |
| Open Circuit Voltage -V _{oc} (V) | 41.49 | 39.42 | 41.47 | 41.69 | 39.61 | 41.67 | 41.89 | 39.80 | 41.87 | 42.09 | 39.99 | 42.07 |
| Short Circuit Current -I _{sc} (A) | 18.34 | 14.67 | 12.84 | 18.40 | 14.72 | 12.88 | 18.46 | 14.77 | 12.92 | 18.52 | 14.82 | 12.96 |
| Maximum Power Voltage -V _{mp} (V) | 34.38 | 32.22 | 34.37 | 34.58 | 32.40 | 34.56 | 34.78 | 32.58 | 34.75 | 34.98 | 32.75 | 34.94 |
| Maximum Power Current -I _{mp} (A) | 17.31 | 13.85 | 12.12 | 17.36 | 13.89 | 12.15 | 17.41 | 13.93 | 12.19 | 17.46 | 13.97 | 12.22 |
| Module Efficiency STC-η _m (%) | 21.02 | | | 21.20 | | | 21.38 | | | 21.55 | | |
| Power Tolerance (W) | (0, +4.99) | | | | | | | | | | | |
| Pmax Temperature Coefficient | -0.34 %/°C | | | | | | | | | | | |
| Voc Temperature Coefficient | -0.25 %/°C | | | | | | | | | | | |
| Isc Temperature Coefficient | +0.04 %/°C | | | | | | | | | | | |

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

Rear Side Power Gain(SRP-600-BMB-BG)

| Power Gain | 10% | 15% | 20% | 25% | 30% |
|--|-------|-------|-------|-------|-------|
| Maximum Power -P _{mp} (W) | 660 | 690 | 720 | 750 | 780 |
| Open Circuit Voltage -V _{oc} (V) | 41.69 | 41.69 | 41.69 | 41.69 | 41.69 |
| Short Circuit Current -I _{sc} (A) | 20.24 | 21.16 | 22.08 | 23.00 | 23.92 |
| Maximum Power Voltage -V _{mp} (V) | 34.58 | 34.58 | 34.58 | 34.58 | 34.58 |
| Maximum Power Current -I _{mp} (A) | 19.10 | 19.96 | 20.83 | 21.70 | 22.57 |

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 |

