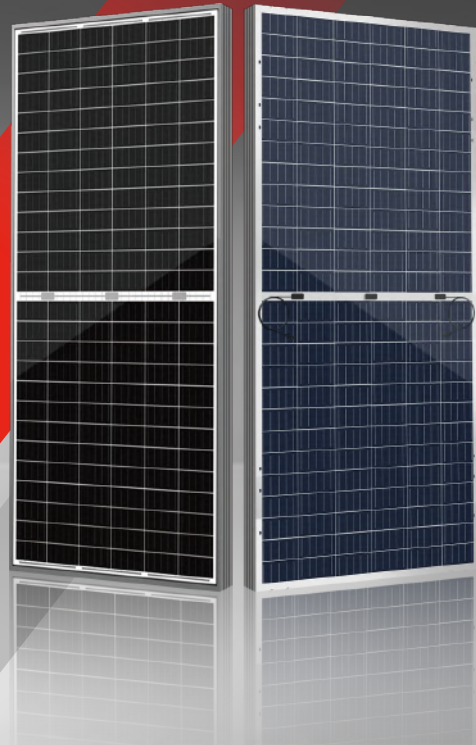


SII SERIES

Multiple upgrades were forged into one







435-450w



● 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 improve ROI.
-  **PVEL** Outstanding reliability proven by PVEL for stringent environment condition :
 - 2400pa wind load and 5400pa snow load.

● QUALITY SYSTEM

ISO19001 / ISO14001 / OHSAS18001

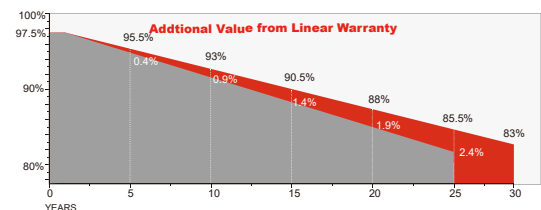
● PRODUCT CERTIFICATION



● INSURANCE

PICC

● WARRANTY



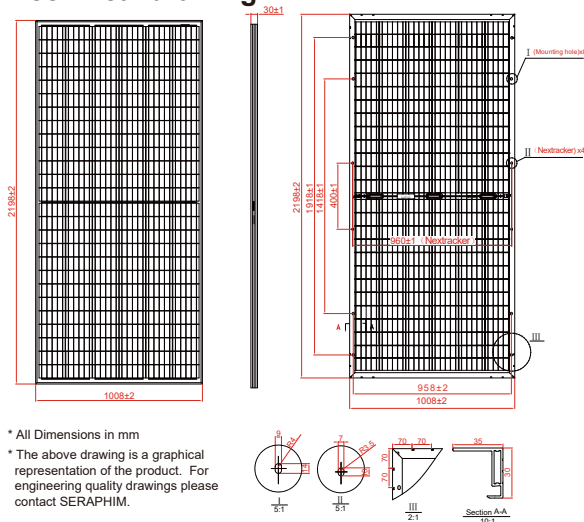
15 YEARS Guarantee on product material and workmanship

30 YEARS linear power output warranty



SERAPHIM SOLAR SYSTEM CO., LTD

Add: No.1-2, HengyaoRd, HenglinTown, Wujin District, 213000, Changzhou, China
Tel: +86-519-69699879 Fax: +86-519-88786181 Email: info@seraphim-energy.com

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 30mm |
| Weight | 28.5kg |
| Solar Cells | PERC Mono (156pcs) |
| 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 mm ² , Portrait:255mm(+)/355mm(-);Landscape:1300mm |
| Connector | Genuine MC4 / TT02 / 05-6 / 05-8 |

Packing Configuration

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

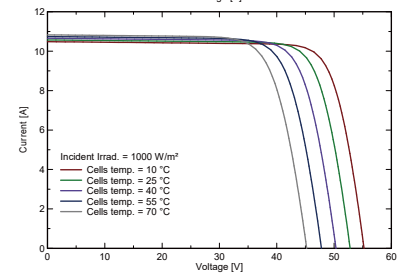
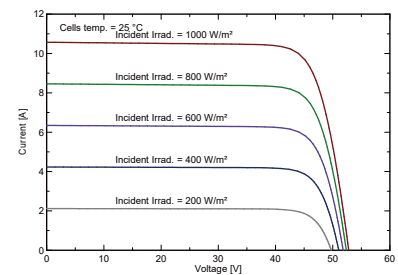
Electrical Characteristics

| Module Type | SRP-435-BMZ-BG | | SRP-440-BMZ-BG | | SRP-445-BMZ-BG | | SRP-450-BMZ-BG | |
|--|----------------|------|----------------|------|----------------|------|----------------|------|
| | Front | Back | Front | Back | Front | Back | Front | Back |
| STC | | | | | | | | |
| Maximum Power -P _{mp} (W) | 435 | 326 | 440 | 330 | 445 | 334 | 450 | 338 |
| Open Circuit Voltage -V _{oc} (V) | 52.7 | 52.4 | 52.6 | 52.4 | 52.7 | 52.5 | 52.9 | 51.8 |
| Short Circuit Current -I _{sc} (A) | 10.47 | 7.90 | 10.53 | 7.90 | 10.64 | 8.02 | 10.70 | 8.09 |
| Maximum Power Voltage -V _{mp} (V) | 44.1 | 43.9 | 44.3 | 44.1 | 44.4 | 44.1 | 44.6 | 44.3 |
| Maximum Power Current -I _{mp} (A) | 9.87 | 7.43 | 9.93 | 7.45 | 10.03 | 7.53 | 10.09 | 7.54 |
| Module Efficiency STC-η _m (%) | 19.63 | | 19.86 | | 20.08 | | 20.31 | |
| Power Tolerance (W) | (0, +4.99) | | | | | | | |
| Pmax Temperature Coefficient | -0.36 %/°C | | | | | | | |
| Voc Temperature Coefficient | -0.28 %/°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-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) | 52.8 | 52.8 | 52.8 | 52.8 | 52.8 |
| Short Circuit Current -I _{sc} (A) | 11.62 | 12.13 | 12.66 | 13.18 | 13.71 |
| 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 | 1500VDC |
| Maximum Series Fuse Rating | 20A |
| Operating Temperature | -40~+85 °C |
| Nominal Operating Cell Temperature | 45±2 |
| Bifaciality | 70%±5% |
| Mechanical Load | Front side 5400Pa/ Back side 2400Pa |
| Fire Safety Class | Class A |

Specifications are subject to change without further notification SRP-DS-EN-2020V2.2 © Copyright 2020 Seraphim


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