

SIII SERIES

Multiple upgrades were forged into one







435-450W



● SIII SERIES

Seraphim redefined the high-efficiency module series by integrating 166mm 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
-  **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

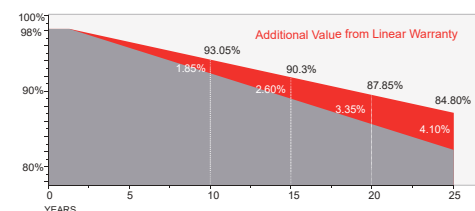
● PRODUCT CERTIFICATION



● INSURANCE



● WARRANTY



Guarantee on product material and workmanship



Linear power output warranty



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Electrical Characteristics

| Module Type | SRP-435-BMA-HV | | SRP-440-BMA-HV | | SRP-445-BMA-HV | | SRP-450-BMA-HV | |
|------------------------------|----------------|------|----------------|------|----------------|------|----------------|------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power at STC (Pmp) | 435 | 327 | 440 | 330 | 445 | 334 | 450 | 338 |
| Open Circuit Voltage (Voc) | 49.6 | 46.3 | 49.7 | 46.4 | 49.9 | 46.6 | 50.1 | 46.8 |
| Short Circuit Current (Isc) | 11.18 | 9.04 | 11.27 | 9.11 | 11.34 | 9.17 | 11.41 | 9.22 |
| Maximum Power Voltage (Vmp) | 41.3 | 38.2 | 41.4 | 38.3 | 41.6 | 38.5 | 41.8 | 38.7 |
| Maximum Power Current (Imp) | 10.54 | 8.55 | 10.63 | 8.62 | 10.70 | 8.68 | 10.77 | 8.73 |
| Module Efficiency at STC(ηm) | 20.01 | | 20.24 | | 20.47 | | 20.70 | |
| Power Tolerance | (0, +3%) | | | | | | | |
| Maximum System Voltage | 1500V DC | | | | | | | |
| Maximum Series Fuse Rating | 20 A | | | | | | | |

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

Temperature Characteristics

| | |
|---|--------------|
| Pmax Temperature Coefficient | -0.35 %/°C |
| Voc Temperature Coefficient | -0.27 %/°C |
| Isc Temperature Coefficient | +0.05 %/°C |
| Operating Temperature | -40 ~ +85 °C |
| Nominal Operating Cell Temperature (NOCT) | 45±2 °C |

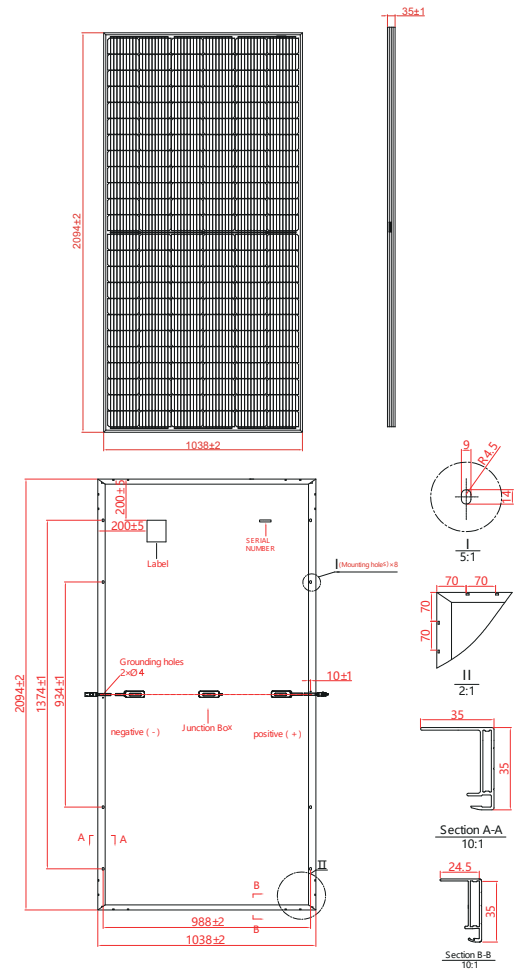
Mechanical Specifications

| | |
|---------------------|---|
| External Dimensions | 2094 x 1038 x 35 mm |
| Weight | 23.5 kg |
| Solar Cells | PERC Mono 166 x 83mm (144 pcs) |
| Front Glass | 3.2mm AR coating tempered glass, low iron |
| Frame | Anodized aluminium alloy |
| Junction Box | IP68, 3 diodes |
| Output Cables | 4.0mm ² , 250mm(+)/350mm(-) or Customized Length |
| Mechanical Load | Front side 5400Pa/ Rear side 2400Pa |

Packing Configuration

| | 2094 x 1038 x 35 mm | |
|-----------------------|---------------------|-------|
| Container | 20'GP | 40'HQ |
| Pieces per Pallet | 31+4* | 31+2* |
| Pallets per Container | 5 | 22 |
| Pieces per Container | 175 | 726 |

* 31+2 and 31+4 pieces per pallet is the special package which only suits for container transport.
For details, please consult SERAPHIM.



I-V Curve

