

Seco 440-465w

High efficiency monofacial modules

PERC 182mm

• PERC MODULE ADVANTAGE

- Less mismatch to get more power
- Less power loss by minimizing the shading impact
- Excellent low-light performance
- Low BOS and LCOE
- 3 times EL test to ensure best quality
- Superior load capacity 2400 Pa wind load & 5400 Pa snow load

• QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001

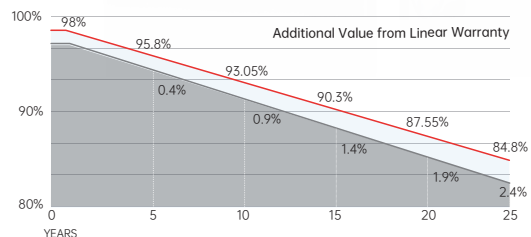
• PRODUCT CERTIFICATION



• INSURANCE

PICC

• WARRANTY



15 YEARS Guarantee on product material and workmanship

25 YEARS Linear power output warranty



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Mechanical Specifications

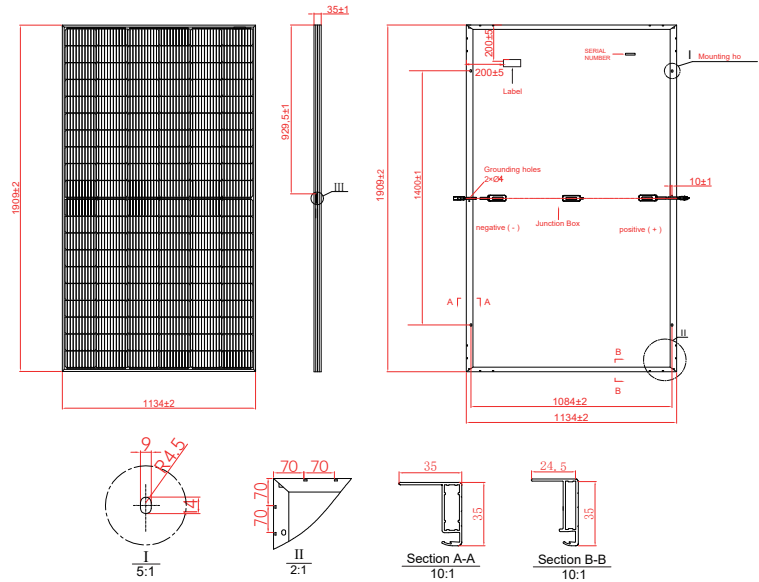
| | |
|--------------------|---|
| External Dimension | 1909 x 1134 x 35 mm |
| Weight | 22.3 kg |
| Solar Cells | PERC Mono(120 pcs) |
| Front / Back Glass | 3.2mm AR coating tempered glass, low iron |
| Frame | Anodized aluminium alloy |
| Junction Box | IP68, 3 diodes |
| Output Cables | 4.0mm ² , 250mm(+)/350mm(-) or Customized Length |

Packing Configuration

| | | |
|-----------------------|-------|-------|
| Container | 20'GP | 40'HQ |
| Pieces per Pallet | 31 | 31 |
| Pallets per Container | 5 | 24 |
| Pieces per Container | 155 | 744 |

For details, please consult SERAPHIM.

Technical drawing



Electrical Characteristics

| Module Type | SRP-440-BMB-HV | | SRP-445-BMB-HV | | SRP-450-BMB-HV | | SRP-455-BMB-HV | | SRP-460-BMB-HV | | SRP-465-BMB-HV | |
|--|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power -P _{mp} (W) | 440 | 329 | 445 | 333 | 450 | 337 | 455 | 341 | 460 | 345 | 465 | 349 |
| Open Circuit Voltage -V _{oc} (V) | 41.12 | 38.33 | 41.22 | 38.41 | 41.32 | 38.57 | 41.42 | 38.67 | 41.52 | 38.77 | 41.62 | 38.86 |
| Short Circuit Current -I _{sc} (A) | 13.56 | 10.96 | 13.66 | 11.04 | 13.76 | 11.12 | 13.86 | 11.20 | 13.96 | 11.28 | 14.06 | 11.36 |
| Maximum Power Voltage -V _{mp} (V) | 34.08 | 31.69 | 34.18 | 31.82 | 34.28 | 31.98 | 34.38 | 32.06 | 34.48 | 32.18 | 34.60 | 32.27 |
| Maximum Power Current -I _{mp} (A) | 12.92 | 10.39 | 13.03 | 10.48 | 13.13 | 10.56 | 13.24 | 10.64 | 13.34 | 10.73 | 13.44 | 10.81 |
| Module Efficiency STC-η _m (%) | 20.33 | | 20.56 | | 20.79 | | 21.02 | | 21.25 | | 21.48 | |
| Power Tolerance (W) | (0, +4.99) | | | | | | | | | | | |

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5 Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-3%; Current measurement tolerance: +/-4%
NOCT: Irradiance 800 W/m² ambient temperature 20°C wind speed :1m/s Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-3%; Current measurement tolerance: +/-4%

Temperature Ratings

| | |
|------------------------------|------------|
| Pmax Temperature Coefficient | -0.34 %/°C |
| Voc Temperature Coefficient | -0.26 %/°C |
| Isc Temperature Coefficient | +0.05 %/°C |

Application Conditions

| | |
|------------------------------------|--|
| Maximum System Voltage | 1500V DC |
| Maximum Series Fuse Rating | 25 A |
| Operating Temperature | -40~+85 °C |
| Nominal Operating Cell Temperature | 45±2 °C |
| Mechanical Load | Front side 5400 Pa / Back side 2400 Pa |

I-V Curve

