

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

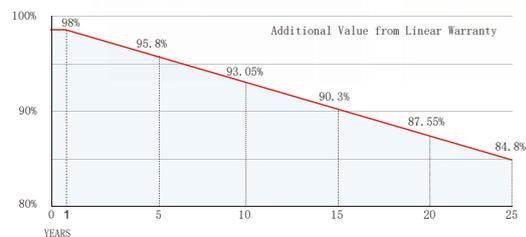
● **PRODUCT CERTIFICATION**



● **INSURANCE**

PICC

● **WARRANTY**



Guarantee on product material and workmanship



Linear power output warranty



Mechanical Specifications

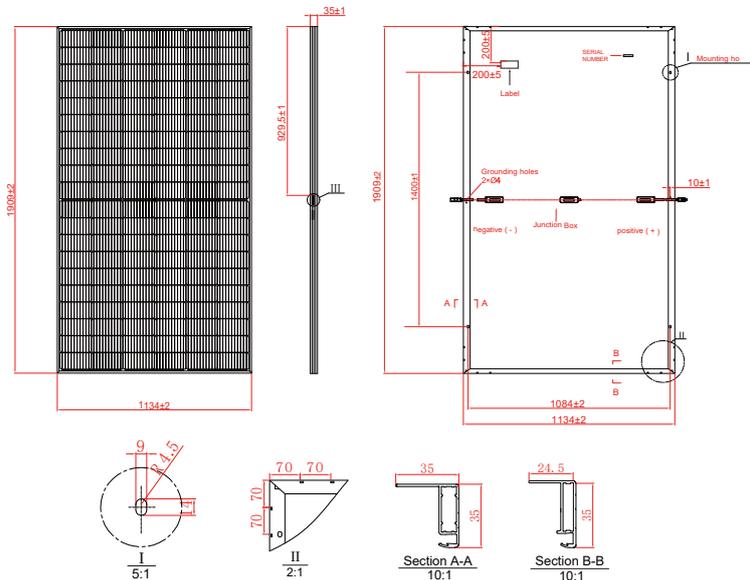
External Dimension	1909 x 1134 x 35 mm
Weight	22.3 kg
Solar Cells	PERC Mono(120 pcs)
Front Glass	3.2mm AR coating tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables	4.0mm ² , 250mm(+)/350mm(-) or Customized Length

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										
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_p (%)	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

