

# Seco







## 405-420W

High efficiency bifacial 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

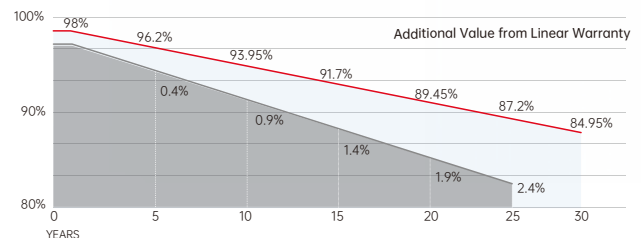
• **PRODUCT CERTIFICATION**



• **INSURANCE**

**PICC**

• **WARRANTY**



**15 YEARS** Guarantee on product material and workmanship

**30 YEARS** Linear power output warranty



**Jiangsu Seraphim Solar System Co., Ltd.**

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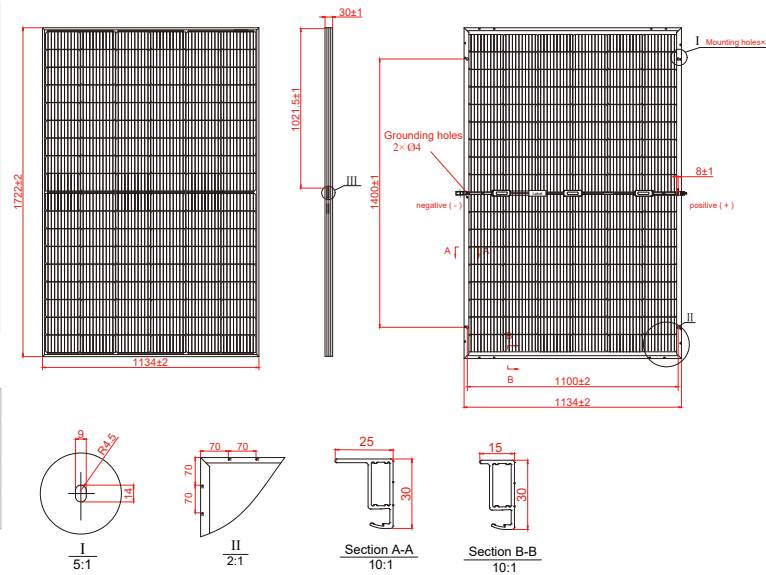
## Mechanical Specifications

External Dimension	1722 x 1134 x 30 mm
Weight	24.0 kg
Solar Cells	PERC Mono crystalline(108 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 <sup>2</sup> , 250mm(+)/350mm(-) or Customized Length
Connector	Genuine MC4 EVO2/Zerun Z4S-abcde/QC Solar QC4.10-cds
Fire Safety Class	Class A

## Packing Configuration

Container	20'GP	40'HQ
Pieces per Pallet	36	36
Pallets per Container	6	26
Pieces per Container	216	936

## Technical drawing



## Electrical Characteristics

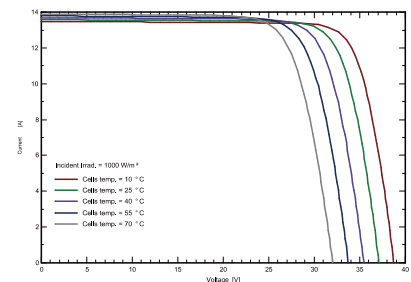
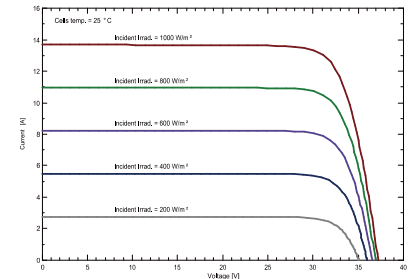
Module Type	SRP-405-BMD-BG			SRP-410-BMD-BG			SRP-415-BMD-BG			SRP-420-BMD-BG		
	Front STC	Front BNPI	Back STC	Front STC	Front BNPI	Back STC	Front STC	Front BNPI	Back STC	Front STC	Front BNPI	Back STC
Maximum Power -P <sub>mp</sub> (W)	405	443	284	410	449	287	415	454	291	420	460	294
Open Circuit Voltage -V <sub>oc</sub> (V)	37.22	37.42	37.20	37.32	37.52	37.30	37.42	37.62	37.40	37.52	38.72	37.50
Short Circuit Current -I <sub>sc</sub> (A)	13.70	14.99	9.66	13.80	15.10	9.73	13.90	15.21	9.80	14.00	15.32	9.87
Maximum Power Voltage -V <sub>mp</sub> (V)	30.93	30.92	30.98	31.05	31.04	31.03	31.16	31.16	31.17	31.28	31.27	31.28
Maximum Power Current -I <sub>mp</sub> (A)	13.10	14.34	9.17	13.21	14.46	9.25	13.32	14.58	9.34	13.43	14.70	9.40
Module Efficiency STC-η <sub>m</sub> (%)	20.74			21.00			21.25			21.51		
Power Measurement Tolerance	± 3%											
Power Sorting Tolerance (W)	-5W~+5W											
Pmax Temperature Coefficient	-0.34 %/°C											
Voc Temperature Coefficient	-0.26 %/°C											
Isc Temperature Coefficient	+0.05 %/°C											

STC: Irradiance 1000 W/m<sup>2</sup> module temperature 25°C AM=1.5 Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-3%; Current measurement tolerance: +/-4%  
 BNPI: front 1000 W/m<sup>2</sup> rear 135 W/m<sup>2</sup> Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-3%; Current measurement tolerance: +/-3%

## Rear Side Power Gain( SRP-415-BMD-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P <sub>mp</sub> (W)	457	477	498	519	540
Open Circuit Voltage -V <sub>oc</sub> (V)	37.42	37.42	37.42	37.42	37.42
Short Circuit Current -I <sub>sc</sub> (A)	15.29	15.99	16.68	17.38	18.07
Maximum Power Voltage -V <sub>mp</sub> (V)	31.16	31.16	31.16	31.16	31.16
Maximum Power Current -I <sub>mp</sub> (A)	14.65	15.32	15.98	16.65	17.32

## I-V Curve



## 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
Bifaciality	70%±10%
Mechanical Load	Front side 5400 Pa / Back side 2400 Pa

Specifications are subject to change without further notification SRP-DS-EN-2024T0605© Copyright 2024 Seraphim



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