


# Nebula 390-405w


Lightweight dual-glass 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

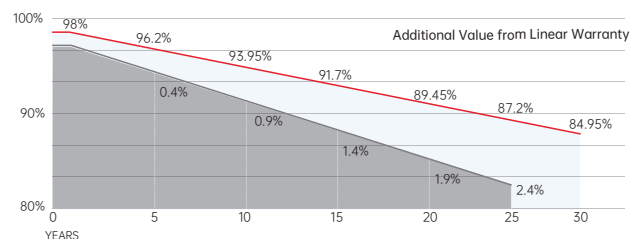
• **PRODUCT CERTIFICATION**



• **INSURANCE**

**PICC**

• **WARRANTY**



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

**30 YEARS** Linear power output warranty



**SERAPHIM ENERGY GROUP CO., LTD.**

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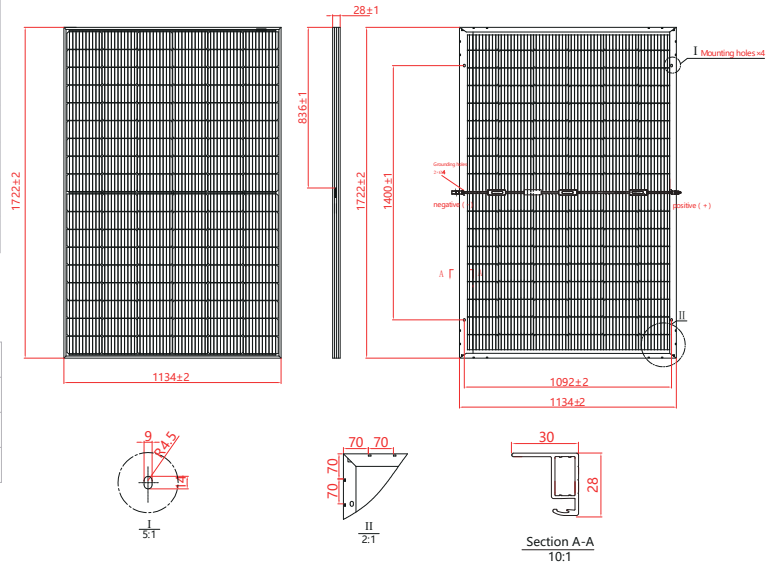
## Mechanical Specifications

External Dimension	1722 x 1134 x 28 mm
Weight	21.0 kg
Solar Cells	PERC Mono crystalline(108 pcs)
Front / Back Glass	1.6mm AR coating semi-tempered glass, low iron
Frame	Black anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables	4.0mm <sup>2</sup> , 250mm(+)/350mm(-) or Customized Length

## Packing Configuration

Container	20'HQ	40'HQ
Pieces per Pallet	39	39
Pallets per Container	6	26
Pieces per Container	234	1014

## Technical drawing



## Electrical Characteristics

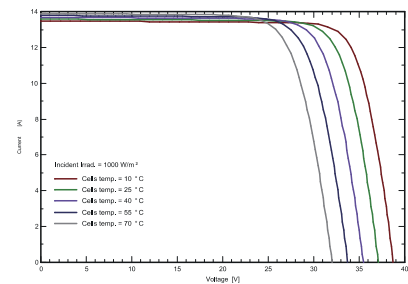
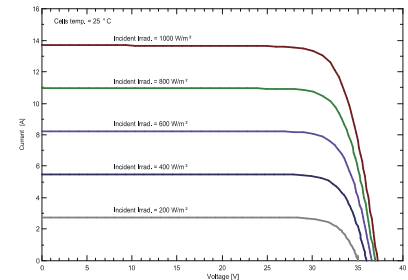
Module Type	SRP-390-BMD-BG			SRP-395-BMD-BG			SRP-400-BMD-BG			SRP-405-BMD-BG		
	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC
Maximum Power -P <sub>mp</sub> (W)	390	294	273	395	298	276	400	301	280	405	304	284
Open Circuit Voltage -V <sub>oc</sub> (V)	36.90	34.47	36.90	37.01	34.56	37.00	37.12	34.64	37.10	37.22	34.73	37.20
Short Circuit Current -I <sub>sc</sub> (A)	13.40	10.83	9.45	13.50	10.91	9.52	13.60	10.99	9.59	13.70	11.07	9.66
Maximum Power Voltage -V <sub>mp</sub> (V)	30.59	28.56	30.44	30.69	28.68	30.62	30.81	28.82	30.80	30.93	28.91	30.98
Maximum Power Current -I <sub>mp</sub> (A)	12.78	10.29	8.97	12.88	10.37	9.03	12.99	10.44	9.10	13.10	10.51	9.17
Module Efficiency STC-η <sub>m</sub> (%)	19.97			20.23			20.48			20.74		
Power Tolerance (W)	(0, +4.99)											
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%

## Rear Side Power Gain( SRP-400-BMD-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P <sub>mp</sub> (W)	440	460	480	500	520
Open Circuit Voltage -V <sub>oc</sub> (V)	37.12	37.12	37.12	37.12	37.12
Short Circuit Current -I <sub>sc</sub> (A)	14.96	15.64	16.32	17.00	17.68
Maximum Power Voltage -V <sub>mp</sub> (V)	30.81	30.81	30.81	30.81	30.81
Maximum Power Current -I <sub>mp</sub> (A)	14.29	14.94	15.59	16.24	16.89

## 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-2024V1.0 © Copyright 2024 Seraphim



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