









# Hydra

## 575-590W

High efficiency dual-glass modules

**HJT**    **210mm**

● **HJT MODULE ADVANTAGE**

-  Multi-Busbar technology
-  Superior load capacity
-  High module efficiency
-  Excellent low-light performance
-  Lower annual attenuation  
Longer warranty
-  Low BOS and LCOE cost
-  Reduce hot spot effect
-  Higher bifaciality

● **QUALITY SYSTEM**

ISO9001 / ISO14001 / ISO45001

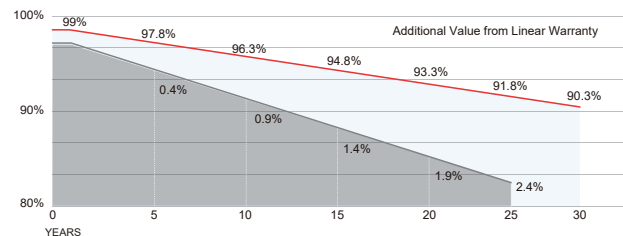
● **PRODUCT CERTIFICATION**



● **INSURANCE**

**PICC**

● **WARRANTY**



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

**30 YEARS** Linear power output warranty



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

Add: NO.10 TongShun road, Henglin Town, Wujin District, Changzhou, Jiangsu Province, China.  
 Tel: +86-564-7736177    Email: info@seraphim-energy.com

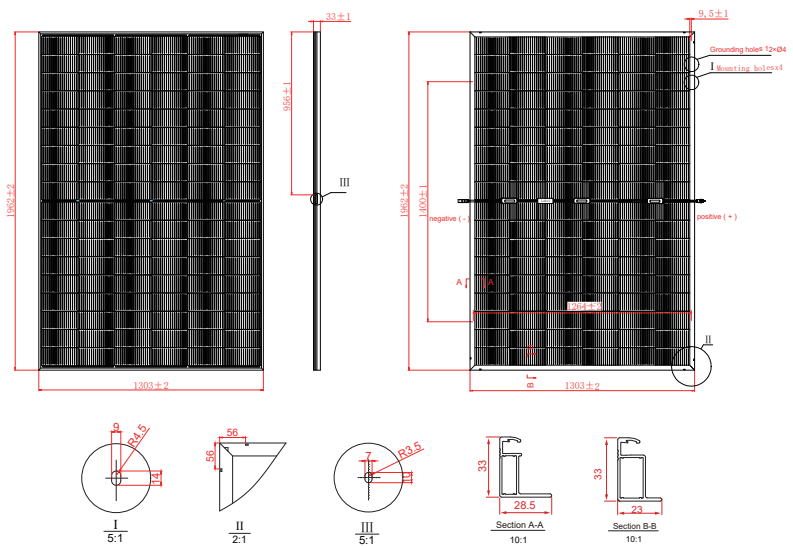
## Mechanical Specifications

External Dimension	1962 x 1303 x 33 mm
Weight	31.5 kg
Solar Cells	HJT 210 x 105 mm (108pcs)
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	40'HQ
Pieces per Pallet	33
Pallets per Container	18
Pieces per Container	594

## Technical drawing



## Electrical Characteristics

Module Type	SRP-575-BHD-BG			SRP-580-BHD-BG			SRP-585-BHD-BG			SRP-590-BHD-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)	575	645	518	580	650	522	585	656	527	590	662	531
Open Circuit Voltage -V <sub>oc</sub> (V)	41.20	41.28	41.18	41.36	41.44	41.34	41.52	41.60	41.50	41.68	41.76	41.66
Short Circuit Current -I <sub>sc</sub> (A)	17.52	19.65	15.77	17.58	19.72	15.82	17.64	19.78	15.88	17.70	19.85	15.93
Maximum Power Voltage -V <sub>mp</sub> (V)	34.64	34.72	34.62	34.80	34.88	34.78	34.96	35.04	34.94	35.12	35.20	35.10
Maximum Power Current -I <sub>mp</sub> (A)	16.60	18.62	14.95	16.67	18.70	15.01	16.74	18.77	15.07	16.80	18.84	15.13
Module Efficiency STC-η <sub>m</sub> (%)	22.49			22.69			22.88			23.08		
Power Measurement Tolerance	± 3%											
Power Sorting Tolerance (W)	-5W~+5W											
P <sub>max</sub> Temperature Coefficient	-0.29 %/°C											
V <sub>oc</sub> Temperature Coefficient	-0.25 %/°C											
I <sub>sc</sub> Temperature Coefficient	+0.046 %/°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: +/-4%

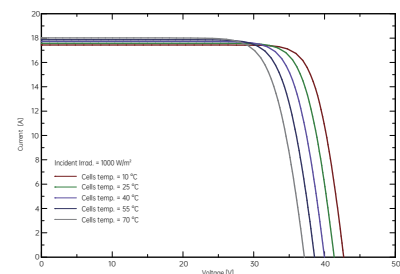
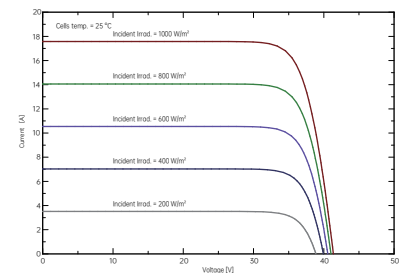
## Rear Side Power Gain( SRP-580-BHD-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P <sub>mp</sub> (W)	638	667	696	725	754
Open Circuit Voltage -V <sub>oc</sub> (V)	41.36	41.36	41.36	41.36	41.36
Short Circuit Current -I <sub>sc</sub> (A)	19.34	20.22	21.10	21.98	22.85
Maximum Power Voltage -V <sub>mp</sub> (V)	34.80	34.80	34.80	34.80	34.80
Maximum Power Current -I <sub>mp</sub> (A)	18.34	19.17	20.00	20.84	21.67

## Application Conditions

Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35 A
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature	45±2 °C
Bifaciality	90%±5%
Mechanical Load	Front side 5400 Pa / Back side 2400 Pa

## I-V Curve



Specifications are subject to change without further notification SRP-DS-EN-2024T0830 © Copyright 2024 Seraphim



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

Add: NO.10 TongShun road, Henglin Town, Wujin District, Changzhou, Jiangsu Province, China.  
 Tel: +86-564-7736177 Email: info@seraphim-energy.com