









# Hydra 705-720w

High efficiency bifacial modules

**HJT**    **210mm**

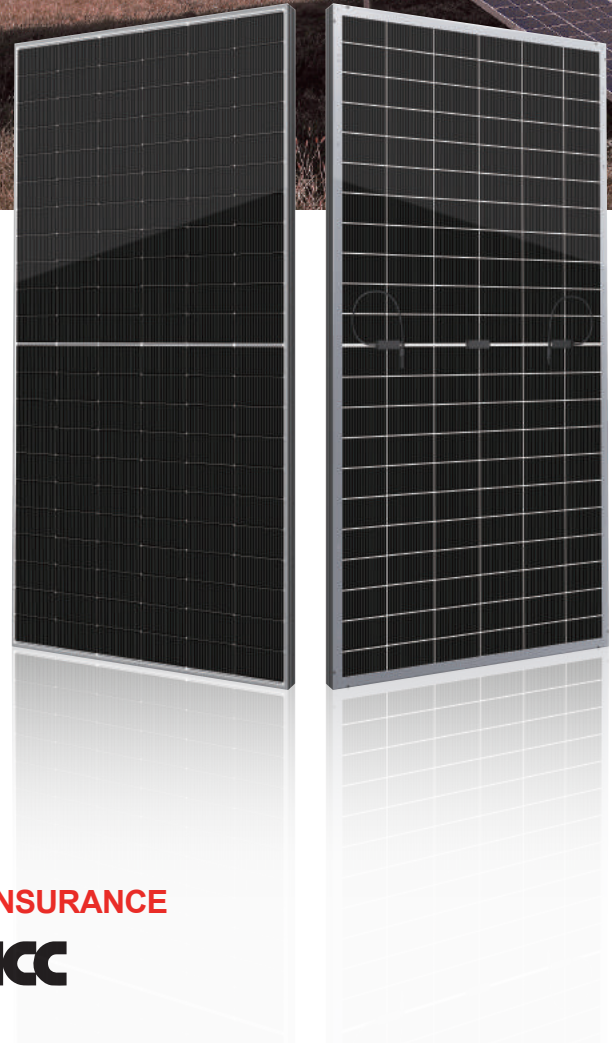
## • HJT MODULE ADVANTAGE

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

## • QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001

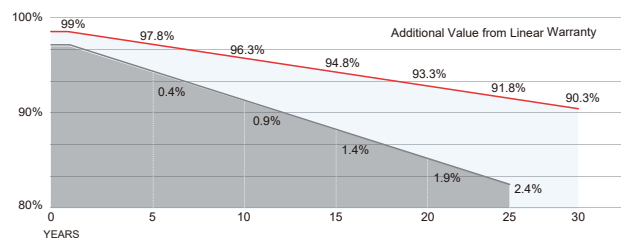
## • PRODUCT CERTIFICATION



## • INSURANCE

**PICC**

## • WARRANTY



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

**30 YEARS** Linear power output warranty



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

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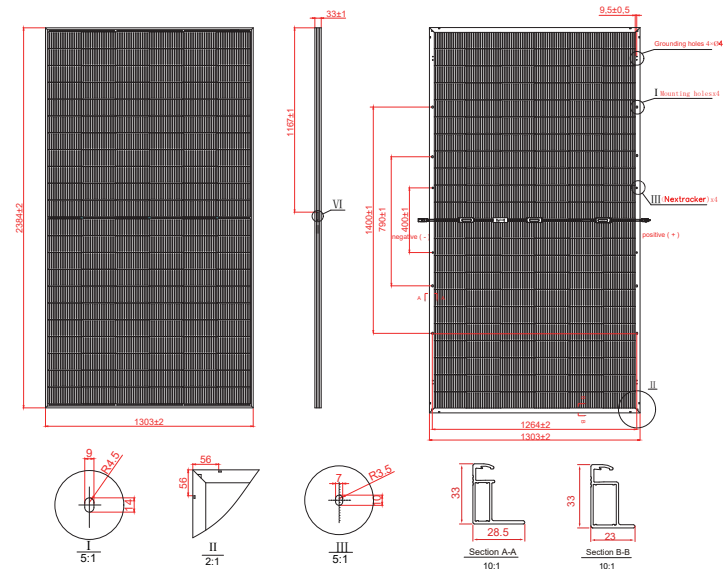
## Mechanical Specifications

External Dimension	2384 x 1303 x 33 mm
Weight	38.5 kg
Solar Cells	HJT 210 x 105mm (132pcs)
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

## Packing Configuration

Container	40'HQ
Pieces per Pallet	33
Pallets per Container	18
Pieces per Container	594

## Technical drawing



## Electrical Characteristics

Module Type	SRP-705-BHC-BG			SRP-710-BHC-BG			SRP-715-BHC-BG			SRP-720-BHC-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 $-P_{mp}(W)$	705	791	635	710	796	639	715	802	644	720	807	648
Open Circuit Voltage $-V_{oc}(V)$	50.32	50.40	50.30	50.48	50.56	50.46	50.64	50.72	50.62	50.80	50.88	50.78
Short Circuit Current $-I_{sc}(A)$	17.50	19.63	15.75	17.56	19.69	15.80	17.62	19.76	15.86	17.68	19.83	15.91
Maximum Power Voltage $-V_{mp}(V)$	42.30	42.38	42.28	42.46	42.54	42.44	42.62	42.70	42.60	42.78	42.86	42.76
Maximum Power Current $-I_{mp}(A)$	16.70	18.73	15.01	16.76	18.80	15.06	16.82	18.86	15.11	16.88	18.93	15.15
Module Efficiency STC- $\eta_m(\%)$	22.70			22.86			23.02			23.18		
Power Tolerance (W)	(0, +4.99)											
Pmax Temperature Coefficient	-0.258 %/°C											
Voc Temperature Coefficient	-0.27 %/°C											
Isc Temperature Coefficient	+0.055 %/°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%

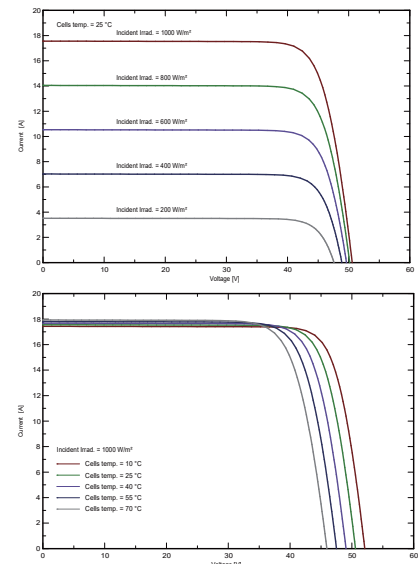
## Rear Side Power Gain (SRP-710-BHC-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power $-P_{mp}(W)$	781	817	852	888	923
Open Circuit Voltage $-V_{oc}(V)$	50.48	50.48	50.48	50.48	50.48
Short Circuit Current $-I_{sc}(A)$	19.32	20.19	21.07	21.95	22.83
Maximum Power Voltage $-V_{mp}(V)$	42.46	42.46	42.46	42.46	42.46
Maximum Power Current $-I_{mp}(A)$	18.44	19.27	20.11	20.95	21.79

## 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-2024V1.2 © Copyright 2024 Seraphim



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