









Hydra

505-520W

High efficiency dual-glass modules

HJT **210mm**

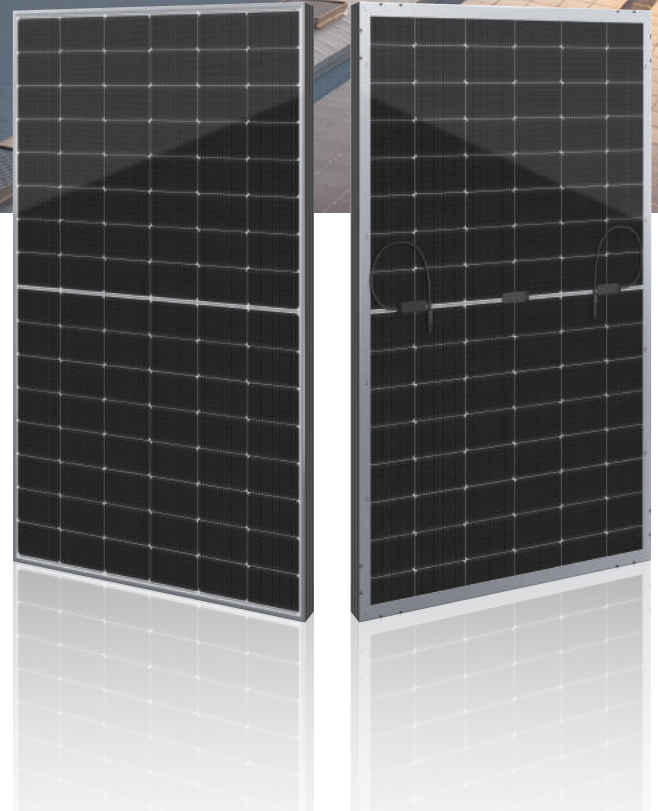
● **HJT MODULE ADVANTAGE**

-  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

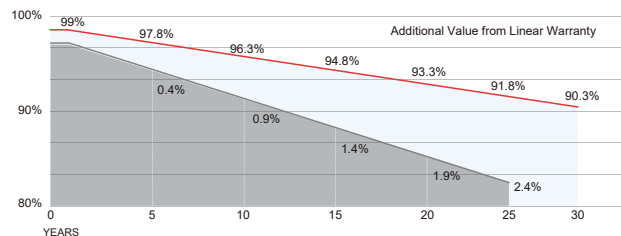
● **PRODUCT CERTIFICATION**



● **INSURANCE**

PICC

● **WARRANTY**



15 YEARS Guarantee on product material and workmanship

30 YEARS Linear power output warranty



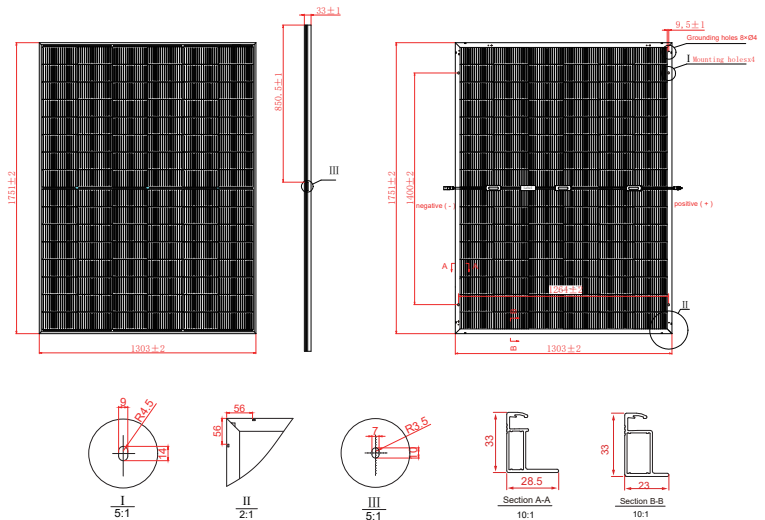
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Mechanical Specifications

External Dimension	1751 x 1303 x 33 mm
Weight	28.0 kg
Solar Cells	HJT 210 x 105 mm (96pcs)
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 ² , 250mm(+)/350mm(-) or Customized Length
Connector	Genuine MC4 EVO2/Zerun Z4S-abcde/QC Solar QC4.10-cds
Fire Safety Class	Class A

Technical drawing



Packing Configuration

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

Electrical Characteristics

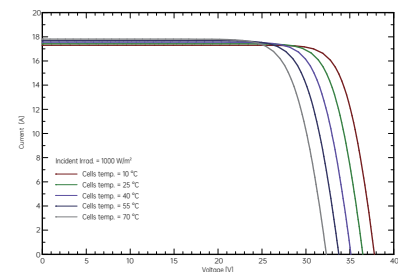
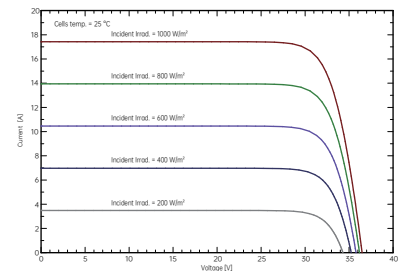
Module Type	SRP-505-BHE-BG			SRP-510-BHE-BG			SRP-515-BHE-BG			SRP-520-BHE-BG		
	Front STC	Front BNPI	Back STC	Front STC	Front BNPI	Back STC	Front STC	Front BNPI	Back STC	Front STC	Front BNPI	Back STC
Maximum Power -P _{mp} (W)	505	566	455	510	572	459	515	578	464	520	583	468
Open Circuit Voltage -V _{oc} (V)	36.32	36.40	36.30	36.48	36.56	36.46	36.64	36.72	36.62	36.80	36.88	36.78
Short Circuit Current -I _{sc} (A)	17.37	19.48	15.63	17.43	19.55	15.69	17.49	19.62	15.74	17.55	19.68	15.80
Maximum Power Voltage -V _{mp} (V)	30.49	30.57	30.47	30.65	30.73	30.63	30.81	30.89	30.79	30.97	31.05	30.95
Maximum Power Current -I _{mp} (A)	16.57	18.58	14.92	16.64	18.66	14.99	16.72	18.75	15.05	16.80	18.84	15.12
Module Efficiency STC-η _m (%)	22.13			22.35			22.57			22.79		
Power Measurement Tolerance	± 3%											
Power Sorting Tolerance (W)	-5W~+5W											
Pmax Temperature Coefficient	-0.29 %/°C											
Voc Temperature Coefficient	-0.25 %/°C											
Isc Temperature Coefficient	+0.046 %/°C											

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5 Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-3%; Current measurement tolerance: +/-4%
 BNPI: front 1000 W/m² rear 135 W/m² Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-3%; Current measurement tolerance: +/-4%

Rear Side Power Gain(SRP-510-BHE-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P _{mp} (W)	561	587	612	638	663
Open Circuit Voltage -V _{oc} (V)	36.48	36.48	36.48	36.48	36.48
Short Circuit Current -I _{sc} (A)	19.17	20.04	20.92	21.79	22.66
Maximum Power Voltage -V _{mp} (V)	30.65	30.65	30.65	30.65	30.65
Maximum Power Current -I _{mp} (A)	18.30	19.14	19.97	20.80	21.63

I-V Curve



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

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



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