

SIII SERIES

Multiple upgrades were forged into one






430-445w



● SIII SERIES

Seraphim redefined the high-efficiency module series by integrating 166mm silicon wafers with multi-busbar and half-cut cell technologies. Seraphim panel combined creative technology effectively and extremely improved the module efficiency and power output.

● KEY FEATURES

-  Less mismatch to get more power
-  Less power loss by minimizing the shading impact
-  Competitive low light performance
-  3 times EL test to ensure best quality
-  Ideal choice for utility and commercial scale projects by reduced BoS and improved ROI

● QUALITY SYSTEM

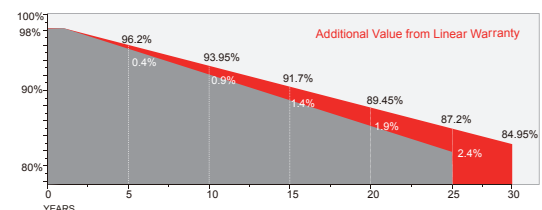
ISO9001 / ISO14001 / ISO45001

● PRODUCT CERTIFICATION



PICC

● WARRANTY



Guarantee on product material and workmanship



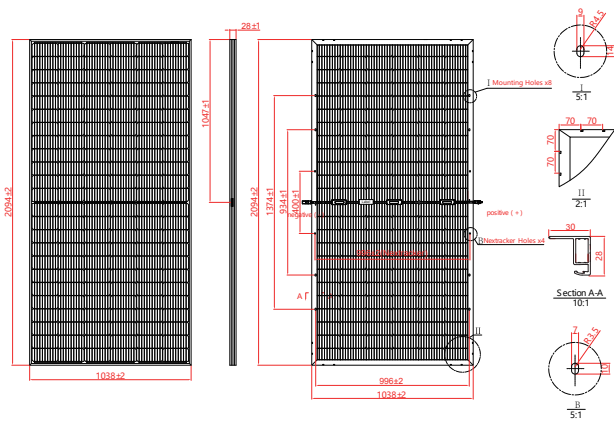
linear power output warranty



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Technical Drawing



* All Dimensions in mm

* The above drawing is a graphical representation of the product. For engineering quality drawings please contact SERAPHIM.

Mechanical Specifications

External Dimension	2094 x 1038 x 28 mm
Weight	23.0 kg
Solar Cells	PERC Mono 166 x 83 mm (144 pcs)
Front / Back Glass	1.6mm 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	Staubli MC4 EVO2/Cuangda TT02 / Renhe 05-8
Fire Safety Class	Class A

Packing Configuration

Container	20'GP	40'HQ
Pieces per Pallet	39	39
Pallets per Container	5	22
Pieces per Container	195	858

Module Type	SRP-430-BMA-BG			SRP-435-BMA-BG			SRP-440-BMA-BG			SRP-445-BMA-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
STC	430	322	301	435	326	305	440	330	308	445	334	312
Maximum Power -P _{mp} (W)	430	322	301	435	326	305	440	330	308	445	334	312
Open Circuit Voltage -V _{oc} (V)	49.4	46.0	49.1	49.6	46.2	49.3	49.7	46.4	49.4	49.9	46.6	49.6
Short Circuit Current -I _{sc} (A)	11.11	8.99	7.83	11.18	9.05	7.88	11.27	9.11	7.95	11.34	9.17	8.00
Maximum Power Voltage -V _{mp} (V)	41.1	37.9	41.2	41.3	38.1	41.4	41.4	38.3	41.5	41.6	38.5	41.7
Maximum Power Current -I _{mp} (A)	10.47	8.50	7.31	10.54	8.56	7.37	10.63	8.62	7.43	10.70	8.68	7.49
Module Efficiency STC-η _m (%)	19.78			20.01			20.24			20.47		
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/m² module temperature 25°C AM=1.5

Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-2%; Current measurement tolerance: +/-4%

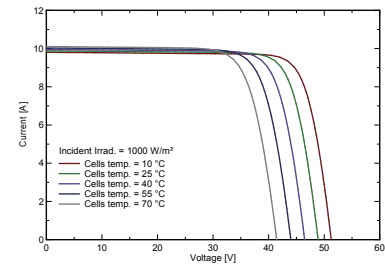
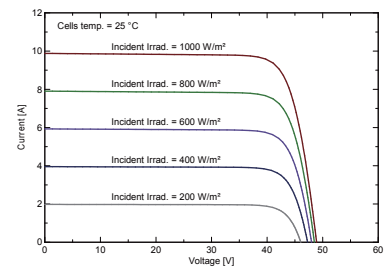
Rear Side Power Gain(SRP-435-BMA-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P _{mp} (W)	479	500	522	544	566
Open Circuit Voltage -V _{oc} (V)	49.6	49.6	49.6	49.6	49.6
Short Circuit Current -I _{sc} (A)	12.29	12.86	13.41	13.97	14.53
Maximum Power Voltage -V _{mp} (V)	41.3	41.3	41.3	41.3	41.3
Maximum Power Current -I _{mp} (A)	11.59	12.12	12.64	13.17	13.70

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%±5%
Mechanical Load	Front side 5400Pa/ Rear side 2400Pa
Fire Safety Class	Class A

I-V Curve



Specifications are subject to change without further notification SRP-DS-EN-2020T1228 © Copyright 2020 Seraphim



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