

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 improve ROI.
-  **PVEL** Outstanding reliability proven by PVEL for stringent environment condition :
 - sand, acid, and alkali, hail stones,
 - 2400pa wind load and 5400pa snow load.
 - Anti-PID

● QUALITY SYSTEM

ISO19001 / ISO14001 / OHSAS18001

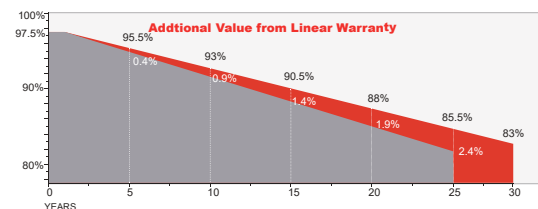
● PRODUCT CERTIFICATION



● INSURANCE

PICC

● WARRANTY



Guarantee on product material and workmanship



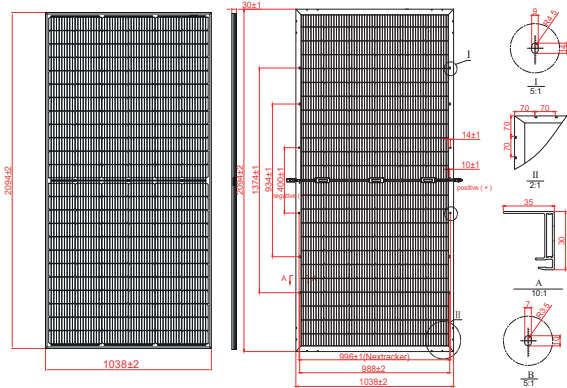
linear power output warranty



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Technical Drawing



* All Dimensions in mm

Mechanical Specifications

External Dimension	2094x 1038 x 30mm
Weight	28.0kg
Solar Cells	PERC Mono 166 x 83 mm (144pcs)
Front / Back Glass	2.0mm AR coating semi-tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables	4.0 mm ² , Portrait:255mm(+)/355mm(-);Landscape:1200mm

Packing Configuration

Container	40'HQ
Pieces per Pallet	32
Pallets per Container	22
Pieces per Container	704

Module Type	SRP-430-BMA-BG		SRP-435-BMA-BG		SRP-440-BMA-BG		SRP-445-BMA-BG	
	Front	Back	Front	Back	Front	Back	Front	Back
STC								
Maximum Power -P _{mp} (W)	430	320	435	324	440	328	445	332
Open Circuit Voltage -V _{oc} (V)	49.4	45.1	49.6	45.3	49.7	45.4	49.9	45.6
Short Circuit Current -I _{sc} (A)	11.11	8.95	11.18	9.02	11.27	9.10	11.34	9.17
Maximum Power Voltage -V _{mp} (V)	41.1	38.0	41.3	38.2	41.4	38.3	41.6	38.5
Maximum Power Current -I _{mp} (A)	10.47	8.43	10.54	8.49	10.63	8.57	10.70	8.63
Module Efficiency STC-η _m (%)	19.78		20.01		20.24		20.47	
Power Tolerance (W)	(0~3%)							
Pmax Temperature Coefficient	-0.35 %/°C							
Voc Temperature Coefficient	-0.28 %/°C							
Isc Temperature Coefficient	+0.05 %/°C							

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5

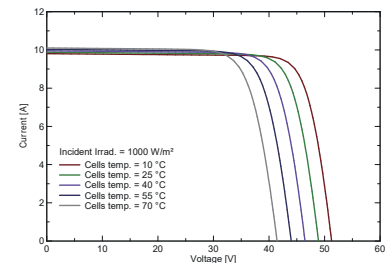
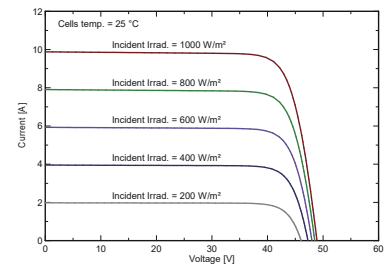
Rear Side Power Gain(SRP-435-BMA-BG)

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	1500VDC
Maximum Series Fuse Rating	20A
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature	45±2 °C
Bifaciality	70%±5%
Mechanical Load	Front side 5400Pa/ Rear side 2400Pa

I-V Curve



Specifications are subject to change without further notification SRP-DS-EN-2020V3.3 © Copyright 2020 Seraphim



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