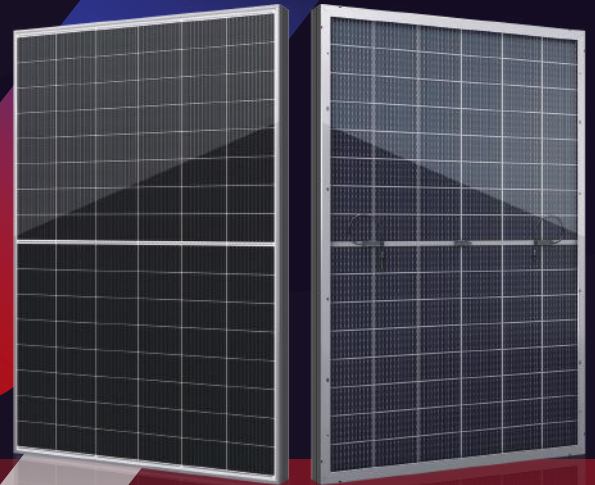


SV SERIES

Seize the Moment, Leading the Efficiency






475-490W



● SV SERIES

Seraphim redefined the high-efficiency module series by integrating 210mm 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

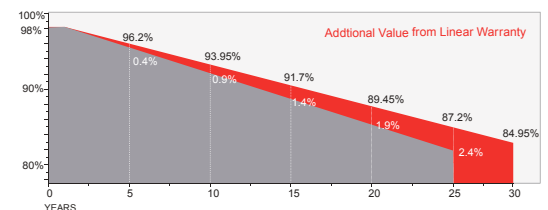
● PRODUCT CERTIFICATION



● INSURANCE



● WARRANTY



Guarantee on product material and workmanship



Linear power output warranty



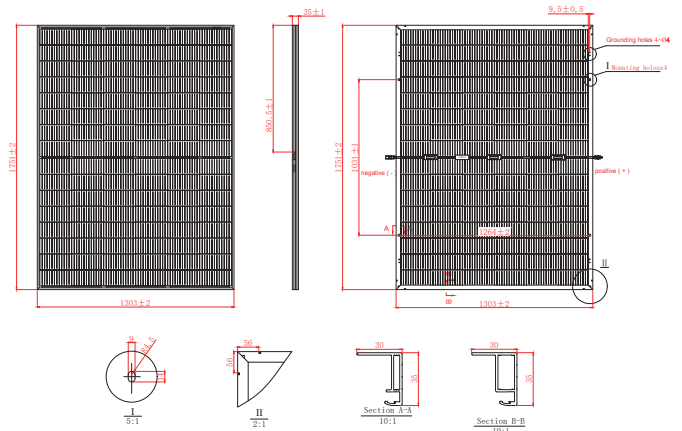
Mechanical Specifications

External Dimension	1751 x 1303 x 35 mm
Weight	28.0 kg
Solar Cells	PERC Mono crystalline(96 pcs)
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	Staubli MC4 EVO2/Cuangda TT02 / Renhe 05-8
Fire Safety Class	Class A

Packing Configuration

Container	40'HQ
Pieces per Pallet	31
Pallets per Container	17
Pieces per Container	527

Technical drawing



* All Dimensions in mm

Electrical Characteristics

Module Type	SRP-475-BME-BG			SRP-480-BME-BG			SRP-485-BME-BG			SRP-490-BME-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
Maximum Power -P _{mp} (W)	475	357	333	480	361	336	485	365	340	490	368	343
Open Circuit Voltage -V _{oc} (V)	36.50	34.10	36.20	36.70	34.28	36.40	36.90	34.46	36.60	37.10	34.65	36.80
Short Circuit Current -I _{sc} (A)	17.29	13.98	12.19	17.34	14.02	12.22	17.39	14.06	12.26	17.44	14.09	12.30
Maximum Power Voltage -V _{mp} (V)	28.83	27.26	28.83	29.06	27.44	29.05	29.29	27.62	29.29	29.52	27.81	29.51
Maximum Power Current -I _{mp} (A)	16.48	13.11	11.55	16.52	13.16	11.57	16.56	13.21	11.61	16.60	13.24	11.63
Module Efficiency STC-η _m (%)	20.82			21.04			21.26			21.48		
Power Tolerance (W)							(0, +4.99)					
Pmax Temperature Coefficient							-0.34 %/°C					
Voc Temperature Coefficient							-0.27 %/°C					
Isc Temperature Coefficient							+0.05 %/°C					

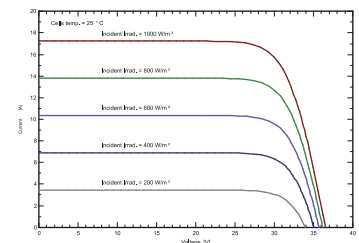
STC: Irradiance 1000 W/m²; module temperature 25°C AM=1.5 Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-2%; Current measurement tolerance: +/-4%

NOCT: Irradiance 800 W/m²; ambient temperature 20°C wind speed :1m/s Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-2%; Current measurement tolerance: +/-4%

Rear Side Power Gain(SRP-480-BME-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P _{mp} (W)	528	552	576	600	624
Open Circuit Voltage -V _{oc} (V)	36.70	36.70	36.70	36.70	36.70
Short Circuit Current -I _{sc} (A)	19.07	19.94	20.81	21.68	22.54
Maximum Power Voltage -V _{mp} (V)	29.06	29.06	29.06	29.06	29.06
Maximum Power Current -I _{mp} (A)	18.17	19.00	19.82	20.65	21.48

I-V Curve



Application Conditions

Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30 A
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature	45±2 °C
Bifaciality	70%±10%
Mechanical Load	Front side 5400 Pa / Back side 2400 Pa

