

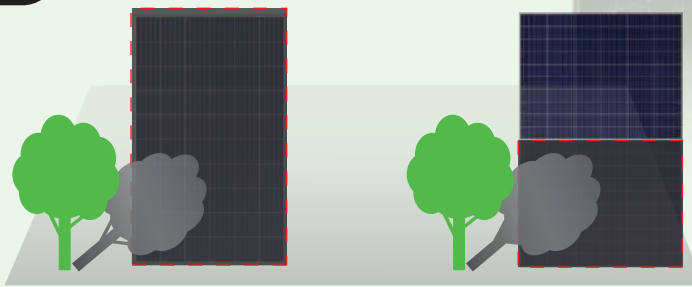
102342-310W mono FB HC



A Module re-Moduled

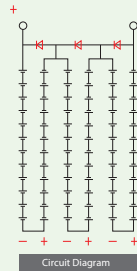
Blade™ Series solar module boasts two identical parts, which are composed of cells that are half the size of ordinary solar cells. By cutting cells into halves, these smaller currents will help reduce “Cell To Module” loss, which means higher output.

Key features



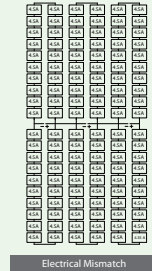
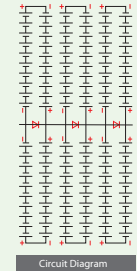
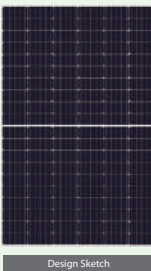
Higher Yield Due to Better Shading Response

Blade™ comprises two separated and identical solar cell arrays, which means the ordinary strings of cells are cut into halves, and these shorter strings compose arrays which has separated current paths. When a module is shaded, only one side shaded array's current will be impacted, while the other array will still be functionally producing power. Under this circumstance, when a module is shaded, the affected working areas of Blade™ will be 50% less. By cutting solar cell into halves, the internal power loss will be lower and hot spot effect will also be reduced.



Less Internal Power Loss

The ribbon length of half-cell is shorter than normal cell. Calculated by Joule's law and Ohm' law, the power loss reduction is nearly 6%.



Less Mismatch Loss

Instead of 6 internal strings of cells, the Blade series module has 2 x 6 shorter ones. This design effectively deals with the mismatch happened between cells caused by shadow, out of sync performance degradation, ect.

Benefits



More Output



Higher Efficiency



Higher ROI

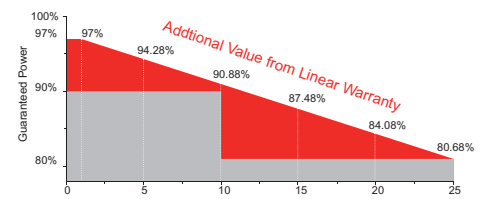
Certificates



Insurance



Warranty



15 YEARS

Guarantee on product material and workmanship

25 YEARS

Linear power output warranty



102342-310W mono FB HC



-HV SRP-XXX-BMB: Maximum System Voltage 1000 VDC
 SRP-XXX-BMB-HV: Maximum System Voltage 1500 VDC

Electrical Characteristics

Module Type	SRP-310-BMB SRP-310-BMB-HV	SRP-315-BMB SRP-315-BMB-HV	SRP-320-BMB SRP-320-BMB-HV
	STC	STC	STC
Maximum Power at STC (Pmp)	310	315	320
Open Circuit Voltage (Voc)	39.8	40.1	40.4
Short Circuit Current (Isc)	9.77	9.85	9.93
Maximum Power Voltage (Vmp)	33.5	33.7	34.0
Maximum Power Current (Imp)	9.26	9.35	9.42
Module Efficiency at STC(ηm)	18.67	18.97	19.27
Power Tolerance	(0,+4.99)		
Maximum System Voltage	1000 VDC / 1500 VDC		
Maximum Series Fuse Rating	20A		

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

Temperature Characteristics

Pmax Temperature Coefficient	-0.38 %/°C
Voc Temperature Coefficient	-0.28 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40 ~ +85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C

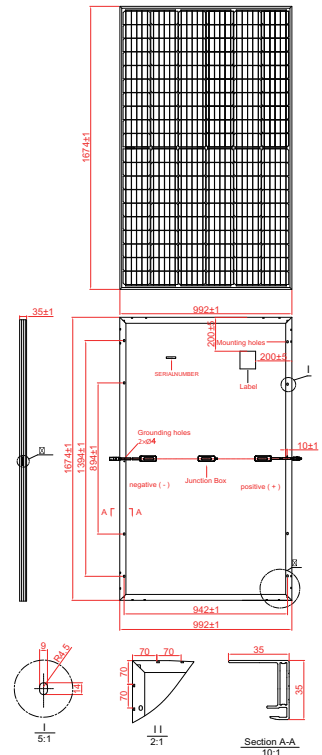
Mechanical Specifications

External Dimensions	1674 x 992 x 35 mm
Weight	18.5 kg
Solar Cells	PERC Mono crystalline 156.75 x 78.375mm (120pcs)
Front Glass	3.2 mm AR coating tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables	4.0 mm ² ,Portrait:255mm(+)/355mm(-); Landscape:1200mm
Connector	MC4 Compatible
Mechanical Load	5400 Pa

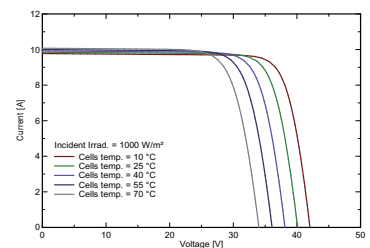
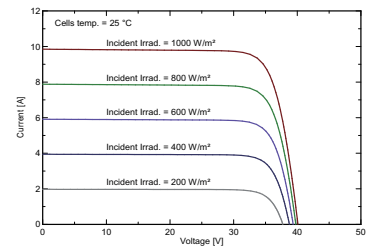
Packing Configuration

	1674 x 992 x 35 mm		
Container	20'GP	40'GP	40'HQ
Pieces per Pallet	30	30	30+2*
Pallets per Container	12	26	26
Pieces per Container	360	780	832

* 30+2 pieces per pallet is the special package which only suits for container transport.
 For details, please consult SERAPHIM.



I-V Curve





SHIFTING THE FUTURE



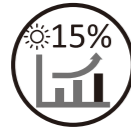
Eclipse Module
325W-340W

BEHIND THE ECLIPSE

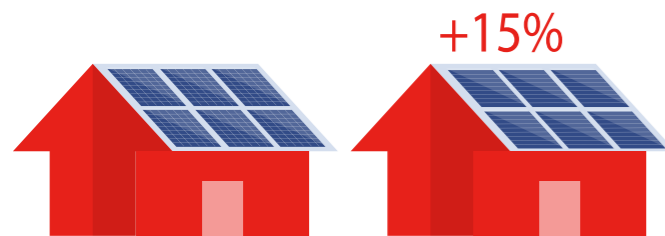
We challenged ourselves to push the boundaries of PV technology and pioneer new innovations in solar module design. The design of the Eclipse module takes into consideration every element that defines a perfect solar module. The culmination of our efforts is a module that is superior in performance, reliability, safety, and value.



The Eclipse module takes advantage of Seraphim's innovative module technology, using traditional solar cells to increase efficiency and reliability while reducing BOS cost. The Eclipse module bridges the gap between functionality and design, providing an elegant solution to all your solar energy needs.



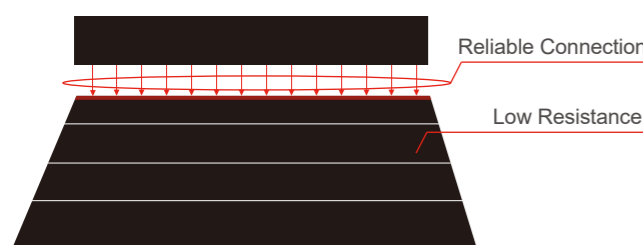
15% Greater Return on Projects



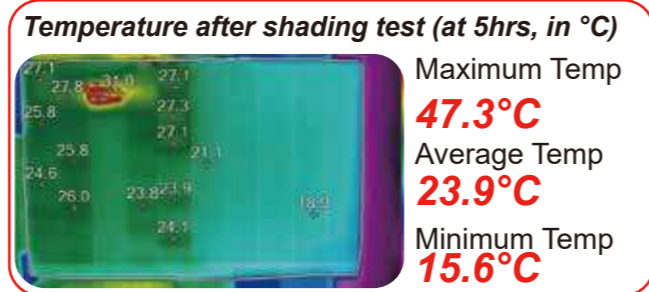
10% Reduction in BOS and Installation Cost



Improved Reliability and Durability



Significantly Reduced Hot-Spot Effect



More Benefits

- Better performance under shade
- Beautifully designed
- 5400Pa Mechanical Load

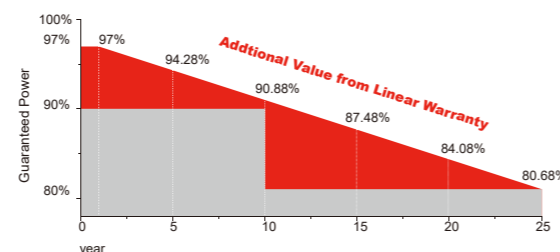
Certifications



Insurances



Warranty



10 YEARS Guarantee on product material and workmanship
25 YEARS linear power output warranty

Electrical Characteristics

	SRP-325-E01B		SRP-330-E01B		SRP-335-E01B		SRP-340-E01B	
	SRP-325-E01B-HV	SRP-330-E01B-HV	SRP-330-E01B-HV	SRP-335-E01B-HV	SRP-335-E01B-HV	SRP-340-E01B-HV	SRP-340-E01B-HV	SRP-340-E01B-HV
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmp)	325	241	330	245	335	248	340	252
Open Circuit Voltage (Voc)	44.70	41.40	44.90	41.60	45.15	41.70	45.35	41.90
Short Circuit Current (Isc)	9.31	7.52	9.40	7.59	9.49	7.65	9.58	7.73
Maximum Power Voltage (Vmp)	36.60	34.00	36.80	34.20	37.05	34.30	37.30	34.50
Maximum Power Current (Imp)	8.88	7.09	8.97	7.17	9.05	7.24	9.12	7.31
Module Efficiency at STC(ηm)	19.11		19.40		19.70		19.99	
Power Tolerance	(0,+4.99)							
Maximum System Voltage	1000 VDC / 1500 VDC							
Maximum Series Fuse Rating	20A							

SRP-XXX-E01B: Maximum System Voltage 1000 VDC
 SRP-XXX-E01B-HV: Maximum System Voltage 1500 VDC
 STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5, Power measurement tolerance: +/-3%;
 NOCT: Irradiance 800 W/m² ambient temperature 20°C wind speed :1m/s Power measurement tolerance: +/-3%

Temperature Characteristics

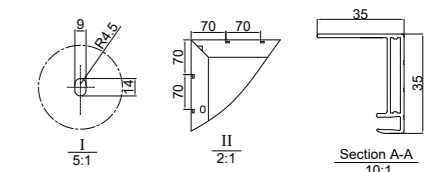
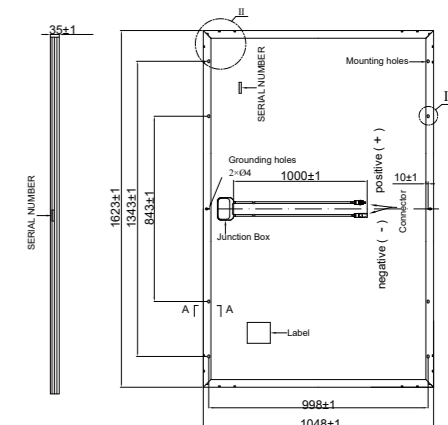
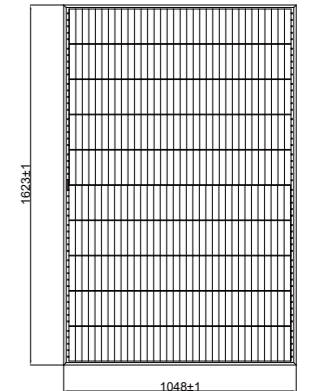
Pmax Temperature Coefficient	-0.37 %/°C
Voc Temperature Coefficient	-0.28 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40 ~ +85 °C
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Mechanical Specifications

External Dimensions	1623 x 1048 x 35 mm
Weight	18.5 kg
Solar Cells	PERC Mono crystalline
Front Glass	3.2 mm AR coating tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68
Output Cables	4.0 mm ² , cable length: 1000 mm
Connector	MC4 Compatible
Mechanical Load	5400 Pa

Packing Configuration

	1623 x 1048 x 35 mm
Container	40'HQ
Pieces per Pallet	30
Pallets per Container	28
Pieces per Container	840



I-V Curve

