

# SEG-6MB-xxxWW/WB

## SERIES 6 INCH 60 CELLS



**SERAPHIM**  
ENERGY GROUP

### Safety



Resistance to salt mist corrosion at your request



Resistance to ammonia corrosion at your request



Product is certified by UL1703

# 295-315W PERC



### Reliability



Anti-PID products using advanced module technology



World 1st company to pass "Thresher Test" and "On-site Power Measurement Validation" certificate

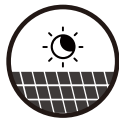


Bankable products

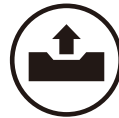
### Performance



High efficiency and enhanced module durability

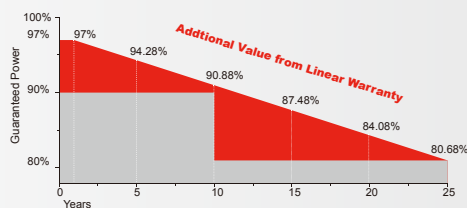


Outstanding power output capability at low irradiance



Withstand up to 2400Pa wind and 5400Pa snow loads(IEC), long lasting

### WARRANTY



**10**  
YEARS

Guarantee on product material and workmanship

**25**  
YEARS

Linear power output warranty

### MANAGEMENT SYSTEM

ISO 9001: Quality management system

ISO 14001: Standard for environmental management system

OHSAS 18001: International standard for occupational health and safety assessment system

### PRODUCT CERTIFICATES



### INSURANCE



# SEG-6MB-xxxWW/WB SERIES 6 INCH 60 CELLS



WW: WHITE BACK-SHEET / SILVER FRAME PRODUCTS  
WB: WHITE BACK-SHEET / BLACK FRAME PRODUCTS

## Electrical Characteristics(STC)

Module Type	SEG-6MB-295WW	SEG-6MB-300WW	SEG-6MB-305WW	SEG-6MB-310WW	SEG-6MB-315WW
	SEG-6MB-295WB	SEG-6MB-300WB	SEG-6MB-305WB	SEG-6MB-310WB	SEG-6MB-315WB
Maximum Power at STC - $P_{mp}$ (W)	295	300	305	310	315
Open Circuit Voltage - $V_{oc}$ (V)	39.5	39.7	39.9	40.2	40.4
Short Circuit Current - $I_{sc}$ (A)	9.56	9.65	9.76	9.82	9.92
Maximum Power Voltage - $V_{mp}$ (V)	31.9	32.1	32.3	32.6	32.8
Maximum Power Current - $I_{mp}$ (A)	9.25	9.35	9.45	9.51	9.61
Module Efficiency STC- $\eta_m$ (%)	18.13	18.44	18.75	19.05	19.36
Power Tolerance (W)	(0,+4.99)				
Maximum System Voltage (V)	1000 or 1500(UL)				
Maximum Series Fuse Rating (A)	20				
Fire Performance	Type2 or Type1(UL)				

## Electrical Characteristics(NOCT)

Module Type	SEG-6MB-295WW	SEG-6MB-300WW	SEG-6MB-305WW	SEG-6MB-310WW	SEG-6MB-315WW
	SEG-6MB-295WB	SEG-6MB-300WB	SEG-6MB-305WB	SEG-6MB-310WB	SEG-6MB-315WB
Maximum Power at NOCT - $P_{mp}$ (W)	219	223	226	230	234
Open Circuit Voltage - $V_{oc}$ (V)	36.5	36.7	36.8	37.1	37.3
Short Circuit Current - $I_{sc}$ (A)	7.73	7.82	7.91	7.96	8.05
Maximum Power Voltage - $V_{mp}$ (V)	30.1	30.3	30.4	30.7	30.9
Maximum Power Current - $I_{mp}$ (A)	7.28	7.36	7.44	7.50	7.58

## 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

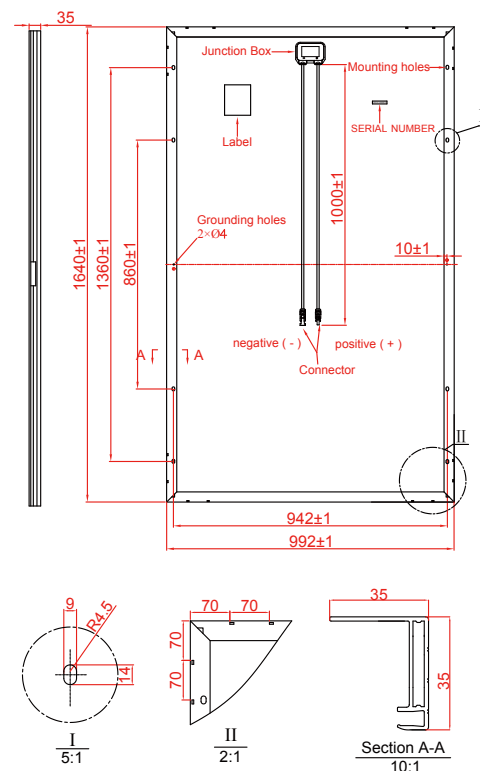
## Packing Configuration

	1640x 992 x 35mm(64.57x39.06x1.37 inch)	
Container	20'GP	40'GP
Pieces per Pallet	30	30
Pallets per Container	12	28
Pieces per Container	360	840

## Mechanical Specifications

External Dimensions	1640 x 992 x 35 mm(64.57x39.06x1.37 inch)
Weight	17.5 kg(38.5 lbs)
Solar Cells	Monocrystalline, 6 inch (60pcs.)
Front Glass	3.2 mm AR coating tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP67
Output Cables	12AWG, cable length:1000 mm
Connector	MC4 Compatible

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25°C, AM=1.5  
NOCT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C, wind speed :1m/s  
Specifications are subject to change without further notification.



\* All Dimensions in mm

\* The above drawing is a graphical representation of the product.

## I-V Curve

