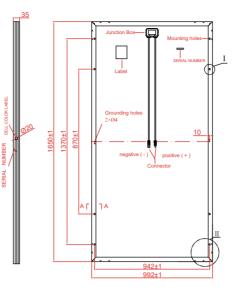
## SRP-(305-320)-6MB-HV



### Electrical Characteristics(STC)

Module Type	SRP-305-6MB-HV	SRP-310-6MB-HV	SRP-315-6MB-HV	SRP-320-6MB-HV
Maximum Power at STC -P $_{mp}$ (W)	305	310	315	320
Open Circuit Voltage -V <sub>oc</sub> (V)	39.9	40.2	40.4	40.6
Short Circuit Current -I <sub>sc</sub> (A)	9.76	9.82	9.92	10.02
Maximum Power Voltage -V <sub>mp</sub> (V)	32.3	32.6	32.8	33.0
Maximum Power Current $-I_{mp}(A)$	9.45	9.51	9.61	9.70
Module Efficiency STC- $\eta_m(\%)$	18.63	18.94	19.24	19.55
Optimizer Max.Output Voltage (V)	35.0			
Power Tolerance (W)	(0,+4.99)			
Maximum System Voltage (V)	1500			
Maximum Series Fuse Rating (A)	15			



### Temperature Characteristics

**Packing Configuration** 

Container

Pieces per Pallet

Pallets per Container

Pieces per Container

Pmax Temperature Coefficient	-0.36 %/°C
Voc Temperature Coefficient	-0.28 %/°C(0%/°C at voltage limiting)
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C

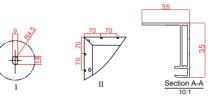
20'GP

30

12

360

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



40'HQ

30+2\*

28

896

40'GP

30

28

840

\* All Dimensions in mm \* The above drawing is a graphical representation of the product.

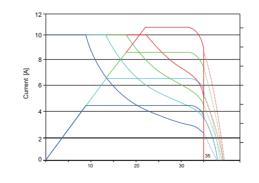
#### I-V CURVE (MPPT MODE )



#### **Mechanical Specifications**

External Dimensions	1650 x 992 x 35 mm
Weight	18.0 kg
Solar Cells	PERC Mono crystalline 6 inch(60pcs)
Front Glass	3.2 mm AR coating tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68
Output Cables	4 mm <sup>2</sup> ,cable length:1000 mm
Connector	MC4 Compatible

STC: Irradiance 1000 W/m², module temperature 25°C, AM=1.5 NOCT: Irradiance 800 W/m², ambient temperature 20°C, wind speed :1m/s Specifications are subject to change without further notification.

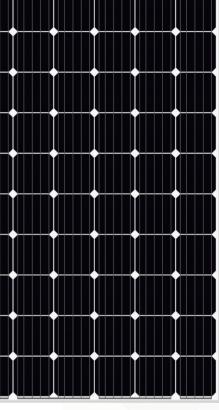


Voltage [V]



# SERAPHIM MX 1500V SRP-(305-320)-6MB-HV

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## SERAPHIM MX

## **SERAPHIM MX**

### SRP-(305-320)-6MB-HV



### **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





Provide flexibility to system design



Enhanced energy harvest



Allows 20~35% more modulesper string saving BoS cost



Withstand and applicable up to 1500V high system voltage



Higher power density



Reduced shading effect Prevent Hot-spot

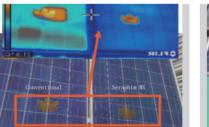
Comparing with conventional product, Seraphim integrated cell-string level optimizer into solar panel and redesigned the module. Trying best to provide advanced smart solution to customers, and improve performance & reliability of the solar panels.

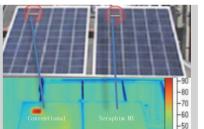
Bypass Diodes VS **Conventional Module** 

Under any condition, the Seraphim MX can optimize power output to enhance energy harvest. However, conventional modules or panel optimizer product will bypass cell-strings When they underperform. So Seraphim MX will give higher energy production, eliminate hot-spots issues.



Seraphim MX reduces the shading effect significantly, prevents hot-spot formation, and eliminates diode failures. In the meantime, it will lower Operation and Maintenance costs.





Leaf thermal test

IEC hot-spot test

Seraphim MX enables flexible PV system design. Best performance with easiest installation.



i.e. 10 panels in parallel with 12: +5% energy increase1

Series connect panels facing different directions i.e. 10 East panels in series with West panels: +12% energy increase1







Nearby Shading, Soiling and inter-row shading





Series connect panels facing different tilts i.e. 10 panels in series with 25panels: +1.6% energy increase1