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Solar Panel Guide Specification Data Sheet

Seraphim Solar System Co., Ltd. SRP-6MB-HV 280-295 SRP-280-6MB-HV

SRP-(280-295)-6MB-HV

Electrical Characteristics(STC)

Module Type	SRP-280-6MB-HV	SRP-285-6MB-HV	SRP-290-6MB-HV	SRP-295-6MB-HV
Maximum Power at STC -P _{mp} (W)	280	285	290	295
Open Circuit Voltage -V _{oc} (V)	38.9	39.1	39.3	39.5
Short Circuit Current -I _{sc} (A)	9.22	9.33	9.44	9.56
Maximum Power Voltage -V _{mp} (V)	31.3	31.5	31.7	31.9
Maximum Power Current -I _{mp} (A)	8.95	9.05	9.15	9.25
Module Efficiency STC-n _m (%)	17.11	17.41	17.72	18.02
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

Pmax Temperature Coefficient	-0.38 %/°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	

Packing Configuration

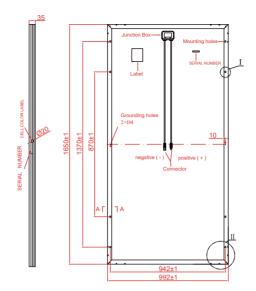
	1650 x 992 x 35 mm		
Container	20'GP	40'GP	40'HQ
Pieces per Pallet	30	30	30+2*
Pallets per Container	12	28	28
Pieces per Container	360	840	896

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

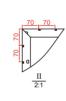
Mechanical Specifications

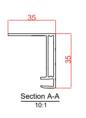
External Dimensions	1650 x 992 x 35 mm	
Weight	18.0 kg	
Solar Cells	Mono crystalline 6 inch(60pcs)	
Front Glass	3.2 mm AR coating tempered glass, low iron	
Frame	Anodized aluminium alloy	
Junction Box	IP68	
Output Cables	4 mm² ,cable length:1000 mm	
Connector	MC4 Compatible	

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.



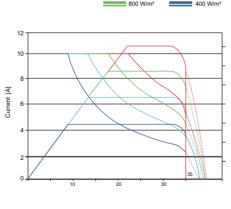






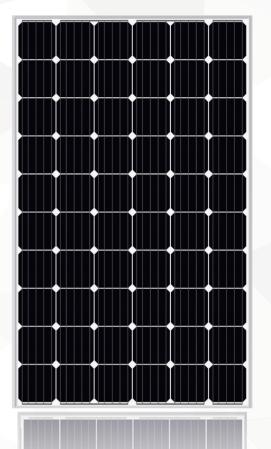
- * The above drawing is a graphical representation of the product.

I-V CURVE (MPPT MODE)















SERAPHIM MX 1500V

SRP-(280-295)-6MB-HV



SERAPHIM MX

SERAPHIM MX



SRP-(280-295)-6MB-HV



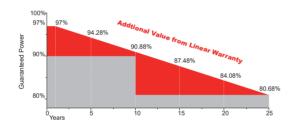
MANAGEMENT SYSTEM

ISO 9001: Quality management system

ISO 14001: Standard for environmental management

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

WARRANTY











Provide flexibility to system design



Enhanced energy harvest



Allows 20~35% more modulesper string saving BoS cost



Higher power density

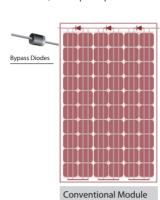


Withstand and applicable up to 1500V high system voltage



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 advaced smart solution to customers, and improve performance & reliability of the solar panels.





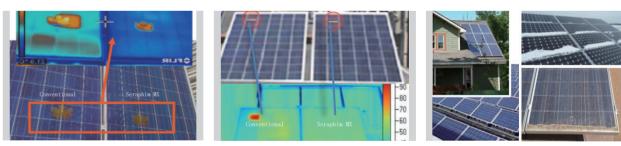
Three MPPT smart

devices optimize each cell-string individually

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 prodution, 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



Leaf thermal test

IEC hot-spot test

Nearby Shading, Soiling and inter-row shading

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



Combine strings of differentlenath 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



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