QUICKLY FIELD REPLACEMENT AND UPGRADE

LONG STRINGS

• Fewer BOS components

• String length increased by up to 30%



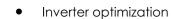












- Lower wire-losses
- Plus all the benefits of Optimization

OPTIMIZATION

Faster installation













• Shade and age tolerance

- Enhanced energy yield
- Greater design flexibility

SAFETY









Over-temperature protection

Plus all the benefits of Monitoring

Plus all the benefits of Safety



CRM integration

Warranty tracking

Fleet management

Maximized roof usage

• NEC 2014 690.12 rapid shutdown compliant

- Module-level deactivation
- Automatic or manual shutdown

MONITORING







Reduced O&M costs

- PV-2.0 data synchronization
- Module bar code tracking

DIODES



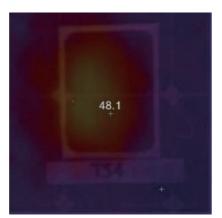


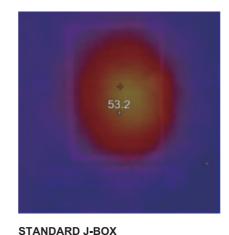
- Similar to a standard junction box
- Standardization on basic TS4 baseplate
- Applicable to conventional and smart modules
- Field replaceable and upgradeable
- Heat dissipation away from the module

This innovative module provides five levels of functionalities. Based on a universal platform, you can select the right functionality for each solar project, which is best for budget and performance.

ENHANCED J-BOX HEAT DISSIPATION CAPABILITY

By incorporating the diodes onto the removable covers of Junction Box, the reliability of module is greatly improved, dissipates less heat on the back sheet.

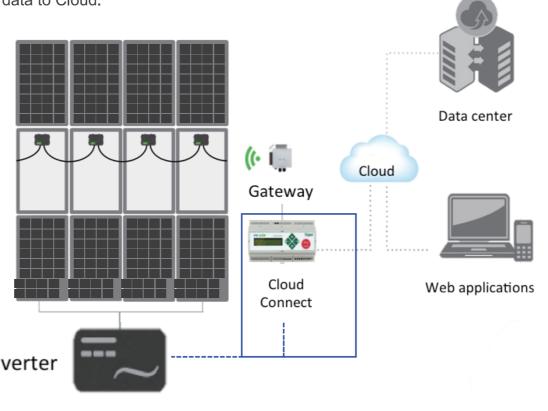




SMART J-BOX

FULL COMPATIBILITY AND MULTIFUNCTIONAL SYSTEM

This innovative module is fully compatible with any inverter. The modules are wired together just like standard modules, if you select the modules with monitoring function or higher level functions, they will communicate wirelessly with the gateway. Then, the gateway transmits data wirelessly to the cloud connect which controls the array with the gateway and uploads data to Cloud.





SRP-6MB(-HV)



305-320w

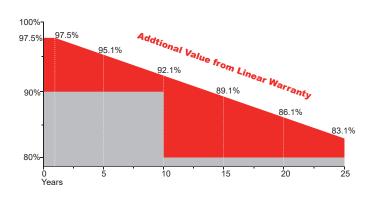


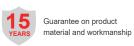
MANAGEMENT SYSTEM

ISO 9001: Quality management system

ISO 14001: Standard for environmental management system OHSAS 18001: International standard for occupational health and safety assessment system

WARRANTY









Advanced smart platform



Quickly field replacement and upgrade



Rapid shutdown



Triple 100% Electrolumines_ cence (EL) tests minimize breakage rate



Outstanding power output capability at low irradiance

Advanced



Enhanced J-Box heat dissipation capacity



Electrical Characteristics(STC)

Module Type	SRP-305-6MB SRP-305-6MB-HV	SRP-310-6MB SRP-310-6MB-HV	SRP-315-6MB SRP-315-6MB-HV	SRP-320-6MB SRP-320-6MB-HV
Maximum Power at STC -P _{mp} (W)	305	310	315	320
Open Circuit Voltage -V _{oc} (V)	39.9	40.2	40.4	40.6
Short Circuit Current -I _{sc} (A)	9.76	9.82	9.92	10.02
Maximum Power Voltage -V _{mp} (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-η _m (%)	18.75/18.63	19.05/18.94	19.36/19.24	19.67/19.55
Power Tolerance (W)	(0,+4.99)			
Maximum System Voltage (V)	1000VDC / 1500 VDC			
Maximum Series Fuse Rating (A)	15A			

Electrical Characteristics(NOCT)

Module Type	SRP-305-6MB SRP-305-6MB-HV	SRP-310-6MB SRP-310-6MB-HV	SRP-315-6MB SRP-315-6MB-HV	SRP-320-6MB SRP-320-6MB
Maximum Power at NOCT -P _{mp} (W)	226	230	234	238
Open Circuit Voltage -V _{oc} (V)	36.8	37.1	37.3	37.5
Short Circuit Current -I _{sc} (A)	7.91	7.96	8.05	8.14
Maximum Power Voltage -V _{mp} (V)	30.4	30.7	30.9	31.2
Maximum Power Current -I _{mp} (A)	7.44	7.50	7.58	7.64

Temperature Characteristics

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

Packing Configuration

	1640	1640 x 992 x 35mm/1650 x 992 x 35mm		
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.

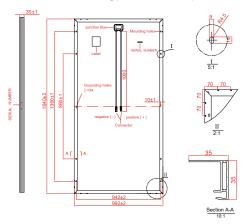
Mechanical Specifications

External Dimensions	1640 x 992 x 35 mm/1650 x 992 x 35 mm
Weight	17.5kg/18.0kg
Solar Cells	PERC Mono crystalline 156.75 x 156.75 mm (60pcs)
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	Front side 5400Pa/Rear side 2400Pa

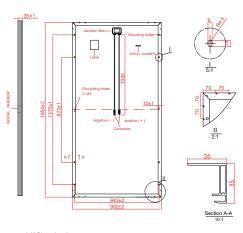
STC: Irradiance 1000 W/m², module temperature 25°C, AM=1.5 NOCT: Irradiance 800 W/m², ambient temperature 20°C, wind speed :1m/s Specifications are subject to change without further notification.

DIODES

Technical drawing(SRP-XXX-6MB)



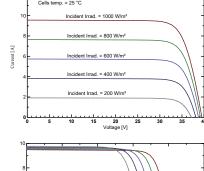
Technical drawing(SRP-XXX-6MB-HV)

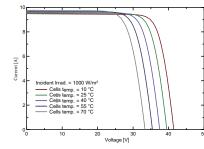


* The above drawing is a graphical representation

For engineering quality drawings please contact SERA

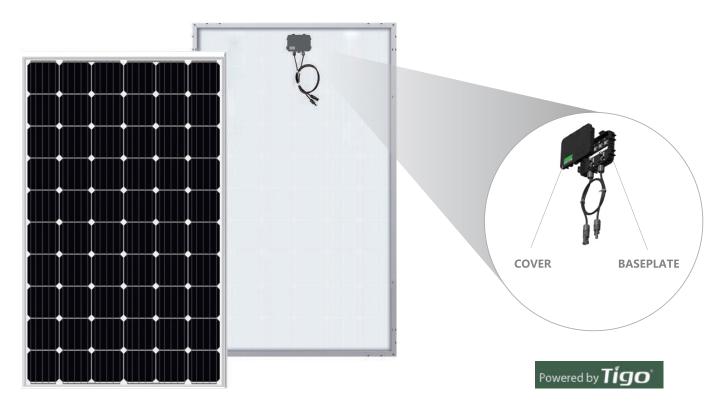
I-V Curve





Seraphim delivers your smart energy needs, optimizes your project and ROI. This innovative module integrates a smart platform, which five different covers of Junction Box can fit onto.

DIODES



This smart solution gives you perfect user experience and customization, your solar projects can be optimized, monitored or safely protected, etc. Please enjoy Seraphim Smart Solutions!