

- a GLASS**
 - High light transmission giving more electricity.
 - Excellent mechanical loading performance (5400 Pascal)
 - SFU-U1 certified
- b d EVA**
 - High light transmission assuring better power performance
 - High GEL and peeling strength guarantying strong encapsulation
 - Good Ultraviolet aging resistance
 - TUV/UL certified
- c CELL**
 - Excellent efficiency and long term reliability
 - Good performance under high temperature and low irradiance conditions
 - 100% In-line Electroluminescence (EL) tested
 - Positive tolerance for each panel
 - TUV certified
- e BACKSHEET**
 - TEDLAR based encapsulation and protection
 - Good aging resistance guarantying strong durability performance
 - Excellent adhesion and ultraviolet stability
 - TUV/UL certified
- f FRAME**
 - Anodized/ Electrophoretic aluminum means durable protection from environment
 - Unique designed profile ensuring strong mechanical loading performance
 - Silver/Black color available
- g JUNCTION BOX**
 - Reliable bypass diodes assuring good product protection
 - Locking connector working compatible worldwide
 - Excellent heat emission performance
 - IP65 or IP67 protection
 - TUV/UL certified



Warranty

- Up to +4.99W power tolerance of each panel
- 10 years guaranteed in product material
- 12 years guaranteed in 90 % minimum power output
- 25 years guaranteed in 80 % minimum power output

Insurance

Product material and performance are insured with Product Liability and Financial Injury Liability Insurance

Electrical Characteristics

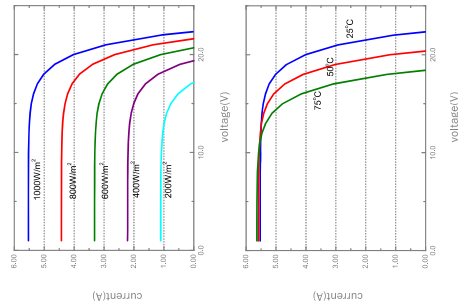
	SRP-80-5MC	SRP-85-5MC	SRP-90-5MC	SRP-95-5MC	Unit
Rated Power (Pmp)	80	85	90	95	W
Power Tolerance	(0,+4.99)	(0,+4.99)	(0,+4.99)	(0,+4.99)	W
Power, max	84.99	89.99	94.99	99.99	W
Cell Efficiency (η_{c})	14.8~15.7	15.8~16.6	16.7~17.5	17.6~18.5	%
Module Efficiency (η_{m})	12.3~13.1	13.1~13.9	13.9~14.7	14.7~15.4	%
Open Circuit Voltage (Voc)	22.0	22.2	22.4	22.6	V
Short Circuit Current (Isc)	4.80	5.01	5.32	5.56	A
Maximum Power Voltage (Vmp)	17.8	18.1	18.1	18.2	V
Maximum Power Current (Imp)	4.49	4.69	4.98	5.21	A
Maximum System Voltage	1000 (TUV), 600 (UL)				V
Maximum Series Fuse Rating	10				A

Standard Testing Condition : Irradiance 1000 W/m², module temperature 25 °C, AM=1.5

Temperature Characteristics

Pmax Temperature Coefficient	-0.45 %/°C
Voc Temperature Coefficient	-0.35 %/°C
Isc Temperature Coefficient	+0.04 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C

Current-Voltage & Power-Voltage Curve (SRP-95-5MC)



ELECTRICAL EQUIPMENT
READ INSTALLATION MANUAL FIRST

SERAPHIM SOLAR SYSTEM CO., LTD
www.seraphim-energy.com

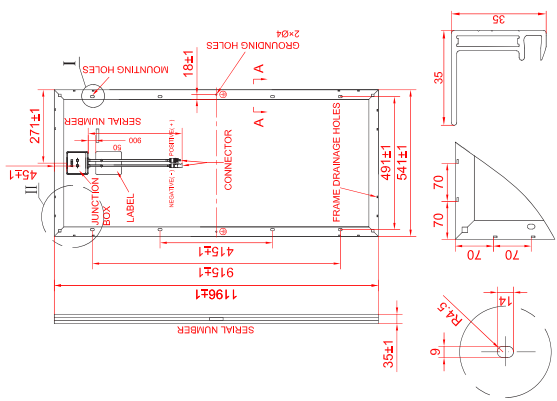
Tel : +86-519-88776028
Email : info@seraphim-energy.com

SHIFT FOR THE BETTER™

Specifications are subject to change without further notification

SRP-5M-362011-V02-EN

© Copyright 2011, Seraphim Solar System



SECTION A-A

* All Dimensions in mm
* The above drawing is a graphical representation of the product.
For engineering quality drawings please contact SERAPHIM.

Mechanical Specifications

External Dimensions	1196 x 541 x 35 mm
Weight	8.0 kg
Solar Cells	Monocrystalline 125 x 125mm (36pcs)
Front glass	3.2 mm tempered glass, low iron
Frame	Anodized/ Electrophoretic aluminum alloy
Junction Box	IP65/IP67 rated
Output Cables	4.0 mm ² , symmetrical lengths 900 mm
Connector	MC4 Compatible
Maximum Snow Load	550 kg/m ²
Maximum Wind Load	200 km/h
Hailstone Impact Test	80 km/h for 25mm ice ball

Packing Configuration

Container	20 GP	40 GP	40 HC
Pieces per pallet	30	30	30
Pallets per container	24	54	54
Pieces per container	7200	1620	1620