

**For a Free Quote:**

**Web: [EnergyPal.com/solar](http://EnergyPal.com/solar)**

**Call: 1-800-990-3725**

**Email: [contact@energypal.com](mailto:contact@energypal.com)**

# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Evolve Energy Group  
SRP-300-315W-6PA  
SRP-310-6PA**

Also available on the web at  
[EnergyPal.com/evolve-energy-group-solar-panels/srp-310-6pa](http://EnergyPal.com/evolve-energy-group-solar-panels/srp-310-6pa)

SRP-6PA | SERIES | 6 INCH 72 CELLS

300-315<sub>w</sub>



### 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



### WARRANTY

10 years guarantee on product material      25 years linear power output warranty

### INSURANCE



## Safety



Safety for salt mist corrosion (IEC61701, tested in Intertek)



Safety for ammonia corrosion (IEC62716, tested in TÜV SÜD)



Safety for fire risk (Class C, tested in TÜV SÜD and Rheinland)

## Reliability



PID free products, passing TÜV SÜD system voltage durability test



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



Bankable products

## Performance



Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments



100% In-line Electroluminescence (EL) tested during production process ensures modules are high quality



Top rank in Photon yield measurement

# SRP-6PA | SERIES | 6 INCH 72 CELLS

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\*BLACK FRAME / BLACK BACK-SHEET PRODUCTS ARE AVAILABLE UPON REQUEST.



## Electrical Characteristics

	SRP-300-6PA	SRP-305-6PA	SRP-310-6PA	SRP-315-6PA	Unit
Rated Power at STC (Pmp)	300	305	310	315	W
Power Tolerance	(0,+4.99)	(0,+4.99)	(0,+4.99)	(0,+4.99)	W
Maximum Power at STC	304.99	309.99	314.99	319.99	W
Minimum Module Efficiency (η <sub>m</sub> )	15.5	15.7	16.0	16.2	%
Open Circuit Voltage (Voc)	44.5	44.6	44.7	44.8	V
Short Circuit Current (Isc)	8.92	9.06	9.13	9.24	A
Maximum Power Voltage (Vmp)	35.9	36.0	36.3	36.4	V
Maximum Power Current (Imp)	8.36	8.48	8.54	8.66	A
Maximum System Voltage	1000 (TÜV), 600 (UL)				V
Maximum Series Fuse Rating	15				A

STC: Irradiance 1000 W/m<sup>2</sup> module temperature 25°C AM=1.5;  
Power measurement tolerance: +/-3%

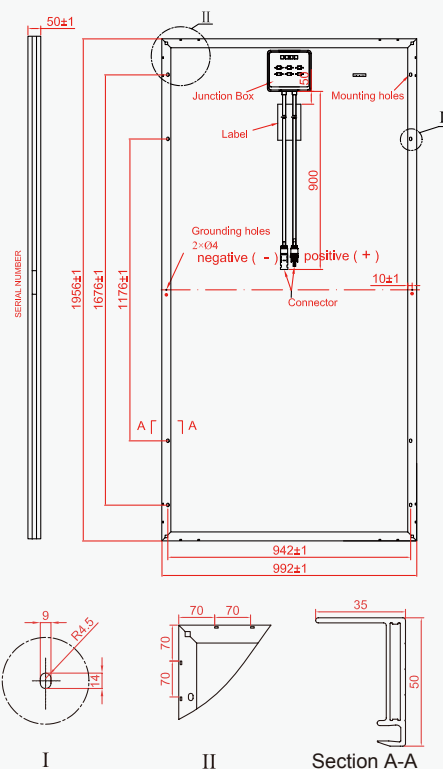
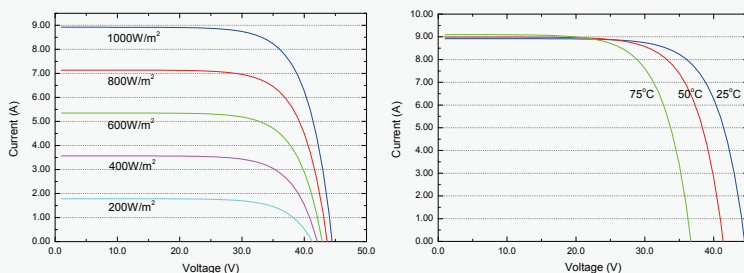
## Temperature Characteristics

Pmax Temperature Coefficient	-0.42 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.04 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C

## Packing Configuration

Container	20'GP	40'GP	40'HC
Pieces per Pallet	21	21	N.A
Pallets per Container	10	22	N.A
Pieces per Container	210	462	N.A

## Current-Voltage & Power-Voltage Curve (SRP-300-6PA)



\* 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	1956 x 992 x 50 mm
Weight	24 kg
Solar Cells	Polycrystalline 156 x 156 mm (72pcs)
Front Glass	3.2 mm tempered glass, low iron
Frame	Anodized/ Electrophoretic aluminium alloy
Junction Box	IP65/IP67
Output Cables	4.0 mm <sup>2</sup> , symmetrical lengths 900 mm
Connector	MC4 Compatible
Mechanical Load	5400 Pa
Hailstone Impact Test	80 km/h for 25 mm ice ball