

**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**

**Sova Power Limited**

**SS10-100P**

**SS100P**

Also available on the web at  
[EnergyPal.com/sova-power-limited-solar-panels/ss100p](http://EnergyPal.com/sova-power-limited-solar-panels/ss100p)

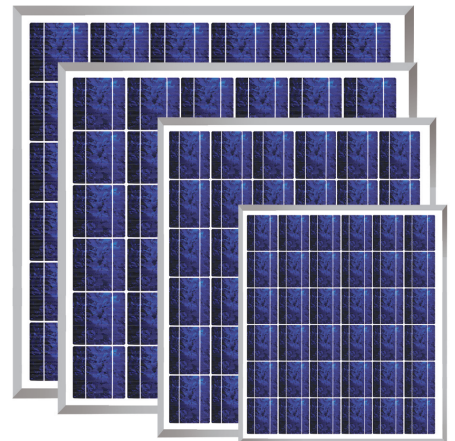


ENERGISING THE FUTURE...

# Battery Charger | 10Wp-100Wp



- Excellent Power Output with +ve Tolerance upto 4.9Wp
- 25 Years of Linear Power Guarantee
- High Performance Modules with efficiency up to 14.07%
- All the modules are PID resistant.
- FS.I (Flame Spread Index) tested modules first in India
- 100% EL Tested



## WARRANTY INFO

UPTO 30Wp: 5 Years  
ABOVE 37Wp:  
MANUFACTURING  
DEFECT 5 years.  
RATED POWER  
12 years to  
90% 25 years to 80%

- The panels are constructed with Ultra Clear toughened low iron, textured high light transmission glass
- Multi layer tedlar and Fast Cure EVA
- Reinforced anodized Aluminium Frame
- Pre-drilled frame for easy mounting
- IP65 rated Junction connector Box

## APPLICATION



- Off-grid home systems
- Rural Electrification
- Water pumping
- Battery charging
- Lighting systems & lanterns Gate opening or fence

## CONSTRUCTIONAL CHARACTERISTICS



- Frame
- Glass
- EVA
- Cells
- Back Sheet

## CERTIFICATION

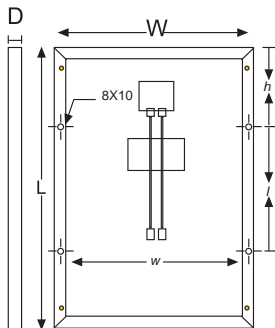


- IEC 61215 & 61730
- IEC 61701 (Salt Mist Test)
- MNRE (India) Certified
- ISO 9001-2008
- ISO 14001-2004

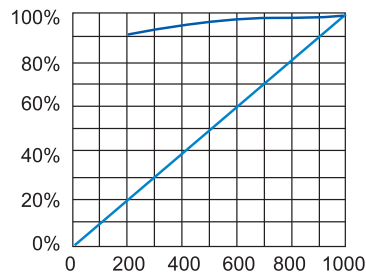


# Battery Charger | 10Wp-100Wp

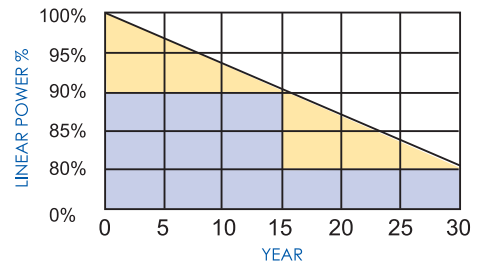
SPECIFICATIONS	SS10P	SS20P	SS37P	SS40P	SS50P	SS60P	SS74P	SS80P	SS100P
	Cell Multi crystalline Solar Cell								
Electrical Characteristics									
Open Circuit Voltage (Voc)	21.64V	22.08V	22.18V	22.10V	22.20V	22.13V	22.18V	22.10V	22.20V
Optimum Operating Voltage (Vmp)	17.89V	18.00V	18.07V	18.02V	18.09V	18.04V	18.07V	18.02V	18.09V
Short Circuit Current (Isc)	0.64A	1.20A	2.39A	2.36A	2.90A	3.53A	4.78A	4.73A	5.86A
Optimum operating Current (Imp)	0.59A	1.14A	2.27A	2.24A	2.77A	3.34A	4.54A	4.47A	5.56A
Power at STC (Pmax)	10W	20W	37(PId)	40W	50W	60W	74(PId)	80W	100W
Module Efficiency (n) %	11.70%	10.37%	13.01%	12.7%	13.75%	13.08%	14.46%	14.12%	14.07%
Operating Conditions	-40°C to +85°C at 85% RH								
Temperature Co-efficient for Voc/°C (B)	-0.34%								
Temperature Co-efficient for Isc/°C (a)	0.05%								
Temperature Co-efficient for power/°C (y)	-0.43%								
NOCT	45°C ± 2°C								
Mechanical Characteristics									
Weight	1.00Kg	2.22Kg	3.62Kg	3.62Kg	4.18Kg	5.28Kg	6.52Kg	6.52Kg	8.17Kg
Module Dimension (L)	356mm	545mm	473mm	473mm	546mm	689mm	851mm	851mm	1067mm
Module Dimension (W)	240mm	354mm	666mm	666mm	666mm	666mm	666mm	666mm	666mm
Module Dimension (D)	22mm	22mm	35.3mm	35.3mm	35.3mm	35.3mm	35.3mm	35.3mm	35.3mm
Mounting Hole (Oblong)	4.0mm		8X10mm						
Mounting Hole CTC distance - vertical	130mm	300mm	300mm	300mm	300mm	300mm	500mm	500mm	500mm
Mounting Hole CTC distance - horizontal	218mm	332mm	630mm	630mm	630mm	630mm	630mm	630mm	630mm



Light-Level Performance for Isc and VOC



Linear Power Guarantee on Sovasolar PV Modules  
97% upto 1 year then @ 0.7%/year



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