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Web: EnergyPal.com/solar

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EnergyPal

Solar Panel Guide Specification Data Sheet

Sova Power Limited

SS10-100P

SS80P

Also available on the web at
EnergyPal.com/sova-power-limited-solar-panels/ss80p

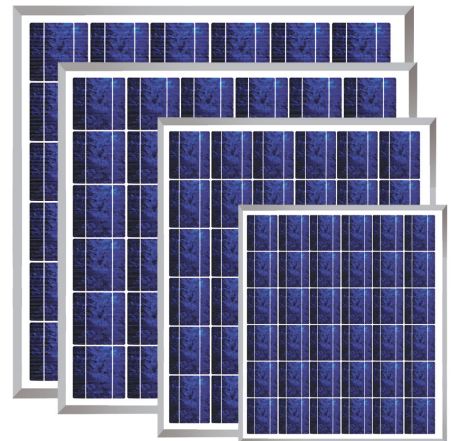


ENERGISING THE FUTURE...

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.
- F.S.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%

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

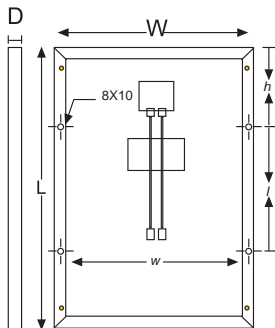
CERTIFICATION

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

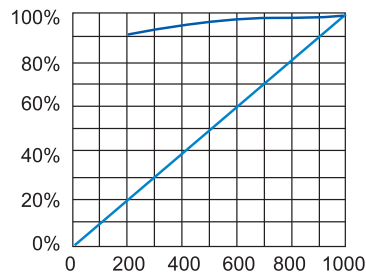


Battery Charger | 10Wp-100Wp

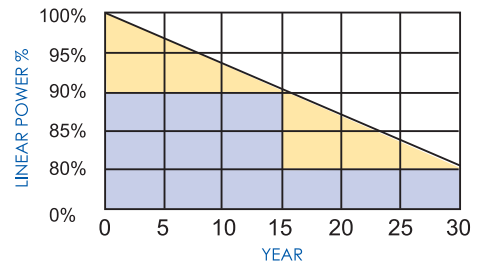
| SPECIFICATIONS | SS10P | SS20P | SS37P | SS40P | SS50P | SS60P | SS74P | SS80P | SS100P |
|---|-----------------------------------|--------|---------|--------|--------|--------|---------|--------|--------|
| | Cell Multi crystalline Solar Cell | | | | | | | | |
| Electrical Characteristics | | | | | | | | | |
| 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(Pld) | 40W | 50W | 60W | 74(Pld) | 80W | 100W |
| Module Efficiency (η) % | 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 (β) | -0.34% | | | | | | | | |
| Temperature Co-efficient for Isc/°C (α) | 0.05% | | | | | | | | |
| Temperature Co-efficient for power/°C (γ) | -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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