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**Solar Panel Guide  
Specification Data Sheet**

**Solex Energy Ltd.  
25W-100W 36 Cells Poly  
SES1240**

Also available on the web at  
[EnergyPal.com/solex-energy-ltd-solar-panels/ses1240](http://EnergyPal.com/solex-energy-ltd-solar-panels/ses1240)

## 20-160W

### 36 CELLS POLY

#### Electrical Characteristics STC\*

| Model    | Pmax(W) | Vmp(V) | Imp(A) | Voc(V) | Isc(A) | Dimession(mm)   |
|----------|---------|--------|--------|--------|--------|-----------------|
| SES1220  | 20W     | 18.33  | 1.2    | 22.00  | 1.35   | 545 x 360 x 22  |
| SES1225  | 25W     | 18.33  | 1.37   | 22.00  | 1.46   | 630 x 360 x 22  |
| SES1230  | 30W     | 18.33  | 1.64   | 22.39  | 1.75   | 550 x 515 x 22  |
| SES1237  | 37W     | 18.40  | 2.01   | 22.43  | 2.15   | 550 x 515 x 22  |
| SES1240  | 40W     | 18.40  | 2.20   | 22.43  | 2.35   | 675 x 485 x 22  |
| SES1250  | 50W     | 18.44  | 2.77   | 22.46  | 2.94   | 785 x 515 x 30  |
| SES1260  | 60W     | 18.44  | 3.00   | 22.46  | 3.53   | 965 x 515 x 30  |
| SES1270  | 70W     | 18.55  | 3.80   | 22.54  | 4.07   | 965 x 515 x 30  |
| SES1274  | 74W     | 18.55  | 4.04   | 22.54  | 4.33   | 1080 x 515 x 30 |
| SES1275  | 75W     | 18.55  | 4.10   | 22.54  | 4.38   | 1080 x 515 x 30 |
| SES1280  | 80W     | 18.72  | 4.28   | 22.68  | 4.58   | 1200 x 515 x 30 |
| SES12100 | 100W    | 18.72  | 5.35   | 22.68  | 5.72   | 1065 x 675 x 30 |
| SES12120 | 120W    | 18.72  | 6.47   | 22.68  | 6.92   | 1255 x 675 x 30 |
| SES12150 | 150W    | 18.75  | 8.10   | 22.70  | 8.68   | 1482 x 675 x 30 |
| SES12160 | 160W    | 19.26  | 8.22   | 23.33  | 8.83   | 1482 x 675 x 30 |

\*Standard Test Conditions: Irradiance: 1000 W / m<sup>2</sup> • Cell temperature: 25°C • with cleaned modules

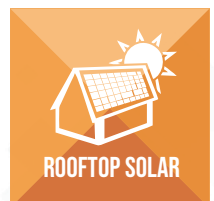
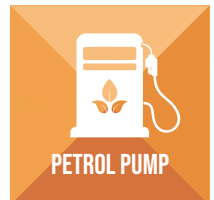
#### Temperature Characteristics

|                                    |           |
|------------------------------------|-----------|
| Nominal Operating Cell Temperature | 45±2°C    |
| Temperature Coefficient of Pmax    | -0.42%/°C |
| Temperature Coefficient of Voc     | -0.30%/°C |
| Temperature Coefficient of Isc     | 0.06%/°C  |

#### Maximum Ratings

|                             |              |
|-----------------------------|--------------|
| Operating Temperature range | -45°C ~+85°C |
| Maximum system Voltage      | 600V         |
| Max series fuse rating      | 10A          |
| Max front load (e.g.: snow) | 5400Pa       |
| Max back load (e.g.: wind)  | 2400Pa       |

#### APPLICATION



#### SALIENT FEATURE OF OUR SOLAR PANELS

- ◆ Wide Range from 20 Watt to 340 Watt
- ◆ Poly-crystalline Solar Cells used
- ◆ 12v, 24v ratings are available
- ◆ High efficiency, resulting in high power output
- ◆ High Impact resistant toughened glass used
- ◆ Custom design also undertaken

# OUR PRODUCT

## SOLAR PV MODULES

Our SPV modules from 20Wp modules to 340Wp modules, We currently maintain an active inventory of 20Wp, 40Wp, 50Wp, 80Wp, 100Wp, 250Wp, 300Wp, 320Wp, 325Wp SPV modules as per MNRE Specification.

## SOLAR EPC

Our Goal is to install commercial and utility scale photovoltaic systems which perform to the highest standards and at maximum output.

## SOLAR ROOF TOP SYSTEMS

Our quality products withstand the toughest environmental conditions to provide the perfect solution for electricity generation. Solex PV Modules are made of highly efficient mono and poly crystalline solar cells which are resistant to rain, water, abrasion and hail impact.

## SOLAR STREET LIGHTING

Solar street lights are powered by photovoltaic panels generally mounted on the lighting structure or integrated in the pole itself. The photovoltaic panels charge a battery, which powers LED lamps during the night. Street lights come with dusk to dawn sensors, which automatically turn the light on in the evening and off in the morning and charging during the day.

## SOLAR WATER PUMPING SYSTEMS

Solar Water Pumping system is a water lifting system powered by electricity generated by solar panels. There are two types of solar water pumps, one is submersible solar pump and another is surface solar pump. Both pumps are available in DC and AC.

## SOLAR WATER HEATING SYSTEMS

Highly efficient water heating systems are being developed by our research team to provide hot water throughout the year.




## SOLAR POWERED PETROL STATIONS

Most petrol pumps require to be run on a 24x7 basis thereby requiring an intelligent solar power management system. Alternate power sources like diesel generators have a higher switchover time and the dispenser pump shuts down almost instantly. Power fluctuations also end up damaging dispensing units at petrol pumps. Sudden power failure leads to loss of fuel, time and money of both the customer and the petrol pump owner.

## REG.OFFICE & WORKS SOLEX ENERGY LIMITED

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