



Solar power is most convenient because it is clean, renewable and quiet. As the cost of traditional mode of electricity is increasing consistently the most reliable solutions is **SOLAR PANELS**. The **RAW MATERIAL** for Solar Panels is **FREE (SUN)**.

## Solar Rooftop System



Solar Rooftop System is way of producing cost effective electricity for domestic and commercial use. The infrastructure can be mounted on the roof of the houses/factory or fields.

## Solar Street Light



Solar Street Light are independent light source which are wireless and not connected to any grid. It works on energy stored in his batteries, generated through Solar Panels. Most efficient solutions for lighting problems in remote areas

## Solar Pump



Solar Pump has small power house and calibrated solar modules. It can be collaborated with any pumping system for any particular work, like irrigation pump or submersible pump

## Water Heating System



Water Heating system powered by Solar energy is very cost effective and eco friendly.

Polycrystalline Solar Panel Electrical Specification												
Model Type	40W	50W	60W	75W	80W	100W	160W	220W	260W	270W	320W	350W
Nominal Maximum Power (Pmax)	40W	50W	60W	75W	80W	100W	160W	220W	260W	270W	320W	350W
Optimum Operating Voltage (Vmp)	19V	17.4V	18.5V	18.5V	18.9V	18.9V	19.4V		31.1V	32.5V	37.4V	38.8V
Optimum Operating Current (Imp)	2.1A	2.7A	3.3A	4.1A	4.3A	5.3A	8.5A	11.4A	8.5A	8.6A	8.5A	9A
Open Circuit Voltage (Voc)	26.7V	26.3V	22.3V	22.3V	22.7V	22.7V	23V	23.7V	37.5V	38.2V	45.3V	45.7V
Short Circuit Current (Isc)	2.2A	2.9A	3.5A	4.4A	4.5A	5.5A	8.8A	12A	8.8A	9A	8.9A	9.5A
Module Efficiency (%)	13.83		14.32	14.26	14.42	14.46	15.83	16.52	16	16.6	16.5	18
Power Tolerance	0 - 2W					0 - 6W						
Maximum System Voltage	DC 600V					DC 1000V						
Operating Temperature	-40°C - +85°C											
Maximum Series Fuse Rating	6 Amp.			10 Amp.		10 Amp.		20 Amp.				
No. of Bypass Diode	1	2				2		2	3			
Mechanical Specification												
Cell Type (mm)	39x156.75	52.25x156.75	62x156.75	78.37x156.75	52x156.75	78.37x156.75	104x156.75	156.75x156.75				
Cell Arrangement in Series	36 cells					72 Cells			60 cells		72 Cells	
Dimension (LxWxH)	435x665x30	545x665x30	630x665x30	778x665x30	1010x665x35	1490x670x35	1490x670x35	1645x990x35	1965x990x40/35			
Weight (Kg.)	3.8	4.6	4.8	6.2	7.8	12	13.5	18	22			
Front Cover	3.2mm tempered glass											
Frame Material	Anodized Aluminium Alloy											
J-Box	IP65, 2 Diode					IP67, 2 Diode			IP67, 3 Diode			
Cable	N/A						4 mm <sup>2</sup>					

\*Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m2, Cells Temperature 25 Deg. C

- **Make in India Solar Panels**
- **International quality, safety and performance certifications**
- **Quality Design, Great Durability & Easy Installation**
- **Special design and WP available as per customer requirement**

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