Solar Water Pumping Systems

Solar Surface Water Pumping System is a Solar Photovoltaic (SPV) System, having an energy efficient DC Surface Centrifugal Pump coupled with a 900W SPV Array. This system is typically used for providing portable water, crop irrigation and livestock watering.

Benefits

- Pumps water from boreholes, wells, lakes or rivers
- Operates without human interference
- Two step charging algorithm
- Optional feature of GPS for maximum water flow
- Ideal for places where electricity/diesel power is unreliable
- Quick and easy installation
- Highly advanced charge controller
- Works under harsh climatic conditions
- Ideal for rural water supplies, livestock and agriculture

Power Packs

During day time, Solar PV Array generates DC power and the energy produced is stored in the battery bank. Battery Charging is done through a Charge Controller to effectively maximize charging current and to prevent excessive discharge/over charge. Energy stored in the battery is drawn by the electrical loads through the inverter, which converts the DC Power into AC. The Power Conditioning Unit (PCU) continuously monitors the state of Battery Voltage, Solar Power Output and the load. Due to sustained usage of power, when the Battery Voltage falls below a preset level, the PCU will automatically cut off the battery bank from the loads and will activate the power from AC Mains. System can be designed as per requirement.