

'SolarPump' - Solar Powered Water Pumping

"Water Where and When You Need It"

- Livestock watering
- Irrigation
- Water for domestic consumption
- Pumping from bore holes, rivers and lagoons
- Pond & Lake management

Our solar powered water pumping systems can pump significant quantities of water from as far down as 100m. They use electrical power from solar photovoltaic panels (PV) to drive sophisticated and robust submersible water pumps.

'SolarPump' - Self-Install Kits

Our self install SolarPump kits provide you with a professionally designed and robust system to solve your water pumping needs. We complete all the wiring between the controller and the junction box and a waterproof splice between the power cable and the pump. So, all the complex installation work is done for you. No special tools are required and installation takes less than a day.

We have 3 'SolarPump Kits' covering a wide range of daily pumping volumes and depths, larger systems can be supplied as required.

SolarPump PS150 - For pumping from 1m to 5m (13,000 - 9,000 litres/day)

SolarPump PS200 - For pumping from 5m to 30m (6,000 - 2,500 litres/day)

SolarPump PS600 - For pumping from 30m+ (6,000 litres/day)

Once installed, the system is totally automatic with a low water sensor stopping the pump should the water level drop. With only one moving part (the pump rotor) the system is very reliable. Pump and controller come with a 2-year manufacturer guarantee and the solar PV panels have a 20-year performance guarantee.

Our **SolarPump** kits are a professionally designed and manufactured water pumping solution. Their robust fabrication and simplicity of operation can ensure year of trouble free water pumping. To complete the system all you need is concrete foundations and a minimum diameter 33mm (1 1/4 inch) plastic water pipe.

'SolarPump' - Kit Contents

- Solar PV panels (polycrystalline or monocrystalline)
- Solar panel cabling
- Pre-wired submersible pump
- Waterproof power cable
- Pre-wired low water sensor
- Waterproof low water sensor cable
- Pre-wired pump controller
- Pre-wired junction box
- Galvanised steel pole mount
- Weather proof connecting cables
- Earthing rod cabling & connector
- Security rope
- Concrete footings template & mounting bolts
- Full installation manual



'SolarPump Kits' - Main Items

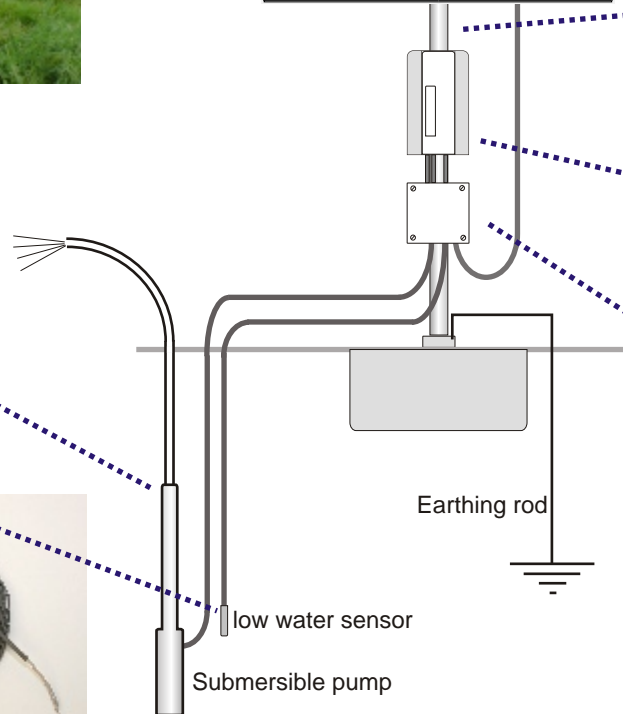
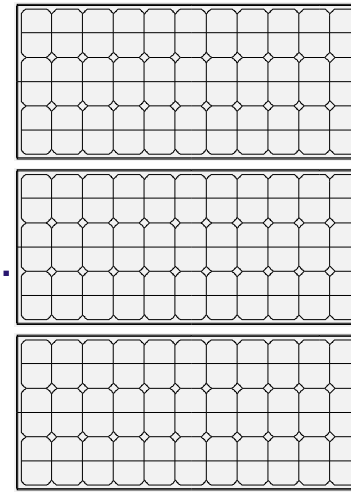
Each 'SolarPump Kit' contains **high efficiency solar PV panels** using either polycrystalline or mono-crystalline technology. These solar panels have a special surface coating that uses sunlight to breakdown any deposits that may gather on them which is then blown off by the wind or washed off by rainwater. The panels require no maintenance and have a 20-year performance guarantee.



High efficiency submersible pump - These pumps are specifically designed to work with solar power systems. With only one moving part they are extremely reliable. They can also be used horizontally for pumping from rivers, streams, lagoons and springs. Each 'SolarPump Kit' contains a pump pre-wired to a waterproof power cable. The power cable is 'oversized' to minimise power losses, so maximising pumping performance.



In a borehole the **low water sensor** is attached to water pipe just above the pump. It stops the pump if the water level drops too low, so protecting the system. In a spring or river the sensor is located above the pump. Each 'SolarPump Kit' contains a low water sensor pre-wired to waterproof cabling ready to simply install into the junction box.



Each 'SolarPump Kit' comes with a **robust and galvanised pole mount** designed to withstand the harshest of weather conditions. The mount supports the solar panels and also the pre-wired controller and junction box. A template is provided which helps to support the supplied pole mount mounting bolts in the concrete footings as it dries.



The **pre-wired controller** maximises the pumping performance from the power available from the solar panels. It includes a simple on/off switch and status lights to let you know how the system is performing. It also has the facility to include a float switch for a storage tank.



The **pre-wired junction box** provides a safe and convenient way to bring together all the wiring. It includes a DC isolator switch and colour coded and labelled wiring making installation a simple exercise.