

# Solar Pumps

## HD50 Pump



The HD50 solar pump is an efficient way to draw water out of dams, rivers or wells to supply storage tanks or stock troughs. The brushless DC motor is powered directly from the solar panels without the need for an AC/DC inverter. The permanent magnet step motor design can reach speeds of 7,000 RPM, which enables the pump to move more water when there is more energy from the sun.

The built-in circuit board and flow valve automatically turns the pump on and off. When filling a storage tank with a float valve, the inlet pipe will close or open depending on the water level. The HD50 flow valve will turn the pump off when the tank inlet pipe is closed, and water stops flowing. The circuit board will automatically turn the pump on every thirty minutes for one minute to check if water is required.

### Centrifugal Pump Design

- > Volume efficient single impeller
- > Suction depth to 4 metres
- > Cast stainless steel pump body.

### Inbuilt Circuit Board

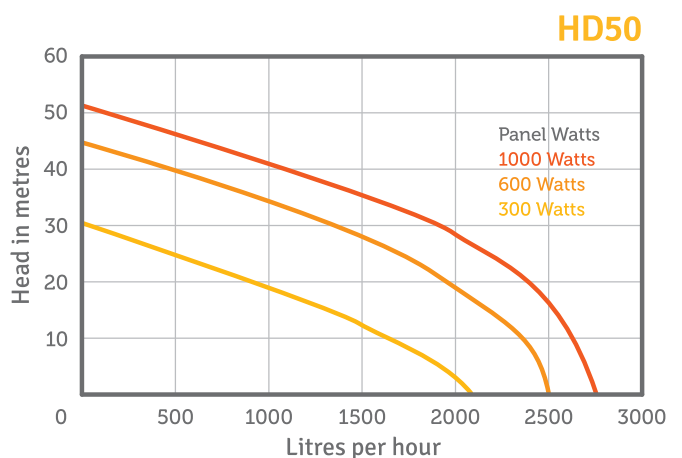
- > Automatic start/stop
- > Loss of water protection
- > Low voltage shut down
- > Maximum power point efficiency.

### Brushless DC Motor

- > Variable speed to maximise sunlight
- > Permanent magnet producing high speed
- > Reduced wear and tear brushless motor.

### Easy to Install

- > 6-metre electrical lead with MC4 plugs
- > Low voltage motor 36V
- > Parallel solar panel configuration
- > Protective pump cover.



MODEL	VOLTS DC	WATTS	AMPS MAX	INLET / OUTLET	PANEL
HD50	25-45 Volts DC	350-1000 Watts	15A	1 / 1 inch	Voc 45V max