



FTMRS SOLAR

Rotation direction of solar water pump





Overview

To make sure your pump is rotating in the proper direction, refer to the rotation stickers or engraving, usually located on the head of the pump, which indicate the direction it should run. How do you design a solar water pumping system?

When designing a solar pumping system, the designer must match the individual components together. A solar water pumping system consists of three major components: the solar array, pump controller and electric water pump (motor and pump) as shown in Figure 1.

What are the components of a solar water pumping system?

A solar water pumping system consists of three major components: the solar array, pump controller and electric water pump (motor and pump) as shown in Figure 1. Note: Motor and pump are typically directly connected by one shaft and viewed as one unit, however occasionally belts or gears may be used to interconnect the two shafts.

How to choose a solar water pumping system?

The type of solar water pumping system: borehole/well (submerged), floating or surface will depend on the water source. If the source is a borehole (proposed or existing) or deep well, then a submersible pump that fits the borehole or well should be selected. If the water source is a river, then a surface pump should usually be selected.

How does a solar water pump work?

For the periods when the available solar power results in a pumped flow rate greater than that possible from the borehole, the designer can include in the system installation a set of water sensors which turn the water pump off when the water falls below the level of the intake of the pump. It will restart when the source refills.



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