

Solar water pump vibration





Overview

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 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 is a solar-powered water pumping system?

Solar-powered pumping systems provide water for a variety of uses, including domestic use and to fulfill the demand of water in the field of irrigation, livestock watering, and village water supply 10, 13. A PV energy generator, power converters, an electric motor, and a pump are the components of a solar-powered water pumping system 14, 15.

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.



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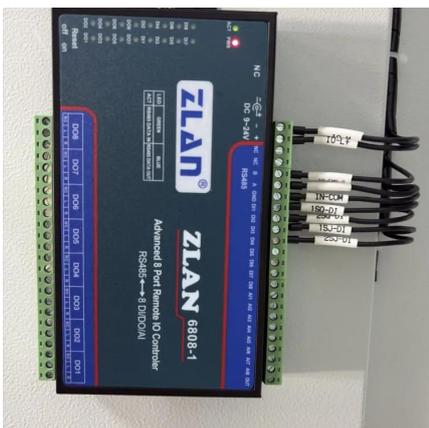
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