
How much water pressure should I use when installing a solar water pump

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 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.

How much water does a solar water pump need per day?

The required daily volume of water required is: $45 \times 200 = 9000$ litres or 9 m^3 (2378 US gallons) This data is used by the designer to select a solar water pumping system that will provide this volume of water per day.

What size water pipe should a solar water pumping system use?

The designer should initially use pipe that is the same size as the inlets and outlets. The designer then undertakes the frictional loss calculations for that size of water pipes using the known maximum water flow for that solar water pumping system.

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