

## FAQ

Written by Administrator

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**Q: How does solar pumping work?**

**A:** Energy from the sun in the form of light is converted by solar panels to electrical energy. This electrical energy is regulated by a pump controller, which powers a motor. The motor converts the electrical energy to rotating mechanical energy and drives a pump. The pump takes in a fluid, usually water, from a source such as a well or a cistern and does flow work to the water, delivering it to higher pressures or to higher elevations. This water would be ready to use for drinking, irrigation or other uses, or could be stored in an overhead tank for future use.

**Q: Can it run at night?**

**A:** With a solar direct system, no. However, ample pressure should be supplied via an overhead tank. If night time pump operation is an absolute requirement, we may integrate a battery system with the solar pump, although we do not recommend this due to cost considerations.

**Q: How do you determine the size of solar pumps?**

**A:** We determine the appropriate size of solar pumps using a design software that incorporates solar energy, temperature, and rainfall data. The software requires information about the location of the installation, the daily water requirement, and the total dynamic head where the water will be delivered. The software processes this information and recommends a solar pump system of the optimal size for the specific application. The required information is ideally provided by customers by filling out an enquiry sheet.

**Q: What is the life of LORENTZ solar panels?**

**A:** Life would depend on usage environment. LORENTZ panels are expected to last at least 20 years.

**Q: What is the life of LORENTZ pumps?**

**A:** Depending on usage environment, LORENTZ pumps could last up to 8 years before needing replacement.\*