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Off-Grid Solar Pump System



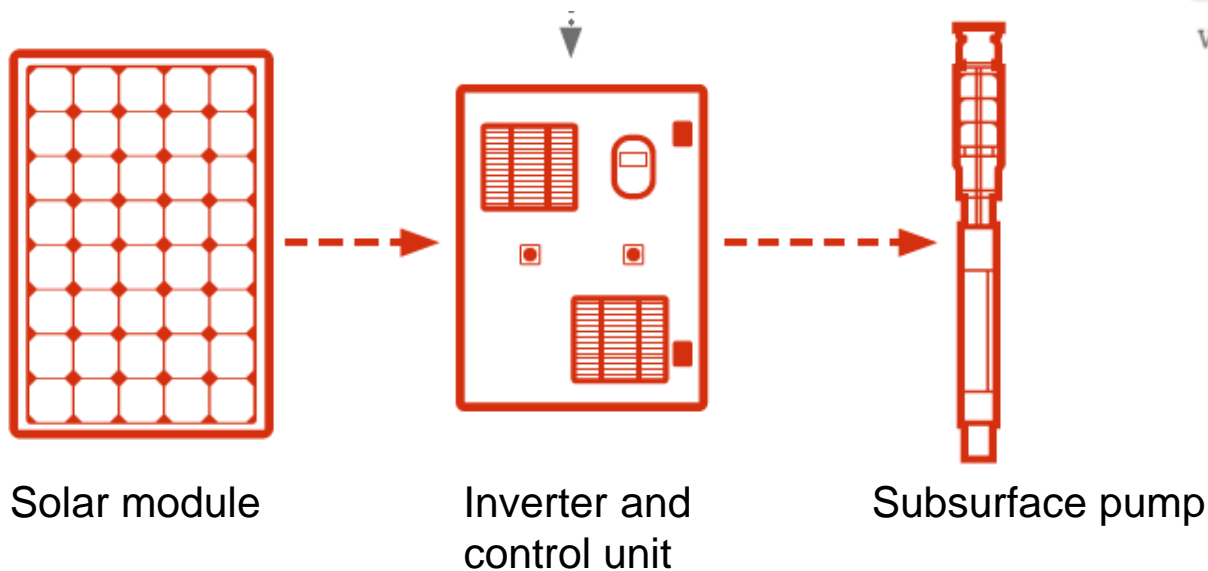
Company confidential

The WPH Group portfolio



- The WPH Group pump system in general
- Product Offering
- Questionnaire
- Summary and Conclusion

The solar pump system



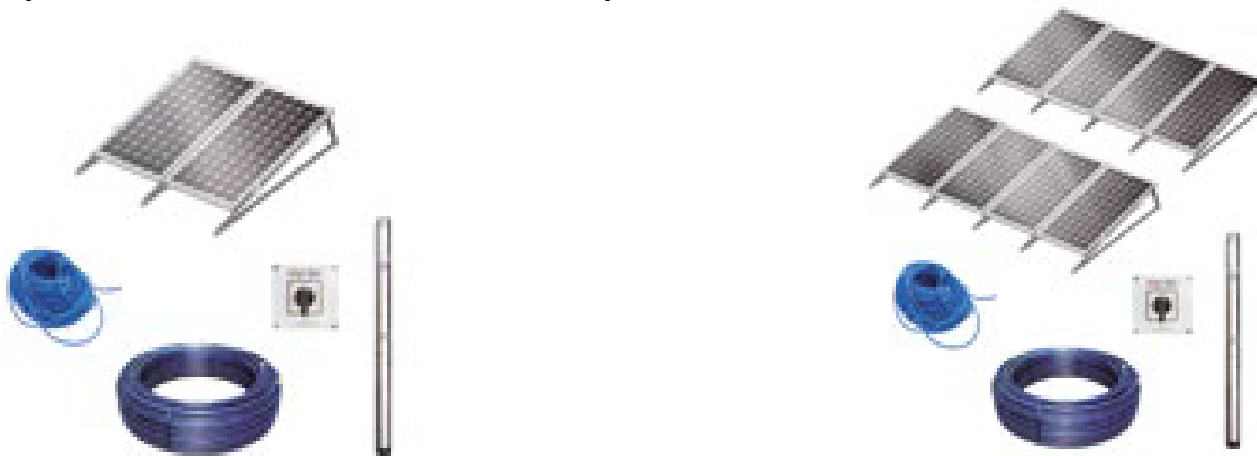
The growing trend towards a “desert agriculture” requires sustainable and stable water supply systems. Renewable energy sources and innovative energy converters are ideal systems for these applications. Off-grid photovoltaic installations can be used to establish a water supply system, affordably, autonomously, free of batteries and without miles of power lines.

The WPHGroup modular system

The WPHGroup solar subsurface pump system is used to deliver ground water independently and off-line. The system can be adapted to meet all requirements due to its modular design.

Standard systems are available with solar powers from 400 Wp up to 1600 Wp with flow rates from 600 litres/hour up to 9900 litres/hour depending on the delivery height.

Larger powers are available on request.



The systems can be extended with an electrical storage and/or a water tank.

Questionnaire



The WPHGroup is always looking for the best economical and efficient solution. Therefore we need a minimum of information with regard to the requirements:

- What is the required flow rate (litres per hour)?
- What is the delivery height which has to be considered including a variation of the water level during the year?
- The time period of the watering? E. g. is a watering during night required?

Conclusion

- A solar subsurface pump system to deliver ground water independently and off-line can be provided easily.
- The modular system will match all individual requirements.
- The system can be extended with an electrical storage to overcome power fluctuations.
- A water tank can be added to allow watering even during night.

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