



Solar Water Pump

Nvis 453



Water any where, any time.

Solar Pumping Systems are becoming more popular by the day. In the recent years, latest technologies have allowed a design that allows these pumps to be used easily at short notice. These systems include a Solar Array, Water Pump, and an Electronic Drive known as VFD (Variable Frequency Drive) in an easy to install package.

The **Nvis 453 Solar Water Pump** has been designed to provide a high quality, cost effective, and eco friendly solution for water pumping applications. This system runs independent from any grid or fossil fuel thus making it possible to allow for irrigation in the most remote locations as well. Our Pumps use the latest IGBT based VFD Technology with highly reliable Digital Signal Processing (DSP) Technology that doesn't require maintenance for many years. To ensure nonstop pumping applications in all weather conditions, we have used MPPT Technology. When enough Solar Energy is not available to run the pump, it can take energy from the grid if available to run the pump without any interruption.

System Operation

Each Solar array has a number of Solar modules connected in parallel or series. Every Solar PV panel generates current by converting Solar radiation to electrical energy.

The electrical energy from the entire array is controlled, tuned and directed through the Variable Frequency Driver(VFD) which enables the connected pump (may be submersible or surface) to draw water and feed the delivery pipelines.

Benefits

- No running cost
- Energy saving
- Long lasting
- Grid independent system





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Features

- Durable construction
- Easy to install & easy to operate
- Highly reliable system
- Suitable for daytime operation
- No battery bank hence no battery replacement cost after a certain time period
- No fuel cost as it uses freely available Solar energy
- Ideal for remote areas where Grid supply is not available
- Based on Digital Signal Processing (DSP) Technology
- Soft start to enhance the life of pump
- Works on Solar as well as on grid
- Compatible with Mono-block and Submersible Pumps
- Suitable for 1 HP, 3 HP & 5 HP Three Phase AC Pumps
- MPPT based design
- Adjustable flow of water in grid mode
- Environment Friendly

Technical Specifications

Specifications	1 HP	3 HP	5 HP
Solar Panel	40W X 36 nos.	100W X 35 nos.	250W X 20 nos.
MPPT Range	380 to 750 VDC		
Input	Solar & Grid		
Operating Frequency	25 – 50 Hz		
Operating Voltage (Mains)	415 VAC		
Maximum PV Voltage	750 VDC		
Protections	• Dry Run • Short Circuit		

Applications



Irrigation



Industrial Applications



Hotels



Farm houses



Domestic Applications



Gardens

No More Water Worries !

Designed and Manufactured in India by -

Nvis Technologies Pvt. Ltd.

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