



# Solar AC Water Pump Demonstrator

Nvis 439A



\* Image is for illustrative purpose and subject to change

**Nvis 439 Solar AC Water Pump Demonstrator** is designed to provide training to the student for learning of basic concept of solar pumping. To ensure nonstop irrigation in all weather conditions MPPT technology has been used in commercial pumps.

Nvis offers Solar Water Pump Demonstrator which includes Solar Panels, Solar MPPT Controller, and Water Pump with its mechanical structure having one source tank and one overhead tank to be used in its operations. It contains all necessary protections to ensure long life and continuous operation.

## Features

- Unique system for electricity generation through solar system and learning
- Complete solution for learning solar photovoltaic system
- Provided with measuring devices for analysis of parameters
- Provided with all safety protections
- Provided with source and overhead tanks to study Solar Pump
- Equipped with MPPT based solar charge controller
- A complete demonstration of conversion of Solar Energy into Electrical Energy
- Environment Friendly



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## Scope of Learning

- Study of solar power generation system and its working while operating Solar AC Pump
- Measurement and analysis of different parameters (Open circuit voltage (Voc) and short circuit current (Isc)) of solar PV module of solar PV module
- Parameters measurement with parallel solar PV modules
- Parameters measurement with series solar PV modules
- Understanding & estimating solar PV system

## Technical Specifications

System includes listed components with its technical descriptions as given below.

### Solar panel

Power Rating	:	1KW
Cell type	:	Polycrystalline

### Solar panel structure

Material	:	GI
Assembly	:	Detachable and easy to install

### AC Water Pump

Pump type	:	Surface Pump
Operation	:	Solar
AC Water Pump	:	1 HP

### Mechanical Structure

Source Tank	:	1No.
Overhead Tank	:	1No.
Material of Tank	:	SS
Tank dimensions (mm) approx. :		L 500 x W 350 x H 315

### Solar controller

Technology	:	MPPT
Power Rating	:	1 HP.

### Digital Meters

DC voltmeter	:	1No.
DC ammeter	:	1No.
AC Voltmeter	:	1No.

**Terminals** : BS10 type for safety purpose

**MCB** : 1No.



Note Shown image is just for illustration original may differ

Designed & Manufactured in India by

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