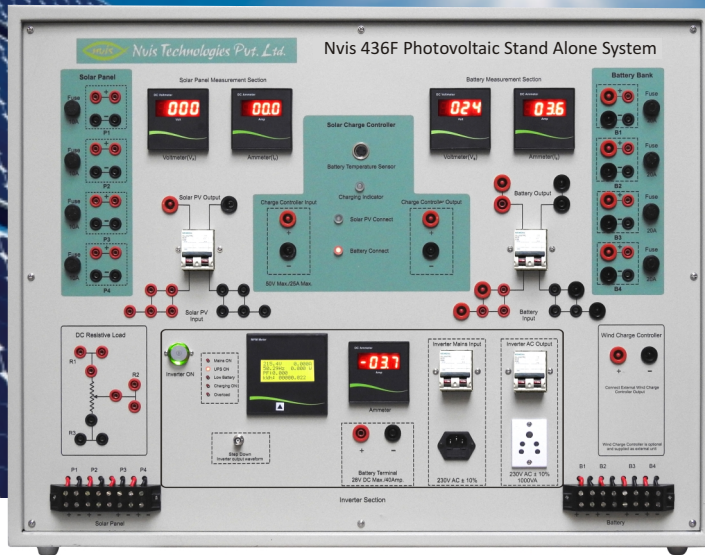




# Photovoltaic Stand Alone System

## Nvis 436F



### Technical Specifications:

- This system consists of two parts, Panel Set - A and Panel Set - B.:
- Panel set A for wiring and panel set B for PV array connection

### Panel Set A

Approx. Dimensions: L 850mm X W 350mm X H 650mm

Balance of System components pre-mounted Trunking and ducting to facilitate wiring and routing of cables-

Minimum Components pre-mounted on board for off Grid PV system circuit:

- DC array Isolator with MC4 connector terminated to receive external
- Solar cable connection to PV Solar Array
- Sets of MCBs for DC Array and Controller protection
- Charge Controller with provision for battery charging, DC external loads and connection to inverter; Have display value on Voltage, current.
- Battery Disconnect Switch
- Battery 100 AH ,12V deep cycle Lead Acid battery
- AC Inverter of 1KVA, input 12V/24V, output 230V, 50 Hz, type pure sine wave type
- AC Isolator
- Provision for earthing terminations
- Control panel are provided with power flow diagrammatic representation
- Cable provided must be of appropriate colour codes and sizes meeting to approve IEC PV regulation requirement.



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### Panel Set B

- PV Module and array requirement are listed below:
- Four PV Polycrystalline modules pre-mounted and connected with following requirement on each PV module
- PV Panel Total Capacity -1kW
- Each module to be connected with bypassed diode in junction box and which is accessible for inspection and testing. The positive and negative terminals are terminated in MC 4 connectors and properly labelled terminal '+ve' or '-ve' wires.
- Parallel MC4 connectors with solar wire and MC 4 straight connector assembly to be of sufficient length and number to be able to connect the 4 modules in series or parallel configuration for training.
- The modules are to be mounted on inclinable plane which is lockable at different angles to horizontal position respectively.