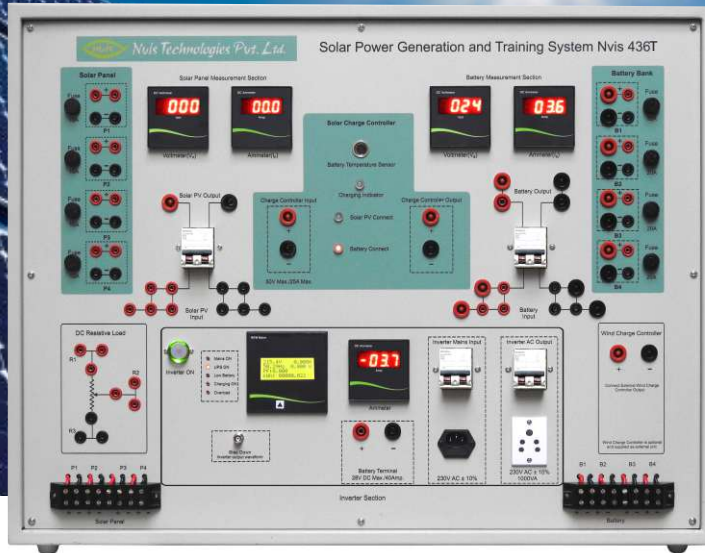




Photovoltaic Stand Alone System

Nvis 436F



* Image is for illustrative purpose and subject to change

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: 800mm L x 350mm W x 600 mm H – Indicative only

1.1 Swivel caster wheels (4 no's) with 2 locking mechanism

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 to 24V, output 230V, 50 Hz, type pure sine wave type
- AC Isolator
- AC consumer unit complete with DP MCB isolator, RCB, SPD, MCB of suitable rating
- Provision for earthing terminations for both DC and AC connection
- Control panel are provided with power flow diagrammatic representation

1.2 All components' rating selected must comply to approved IEC standard and meeting local regulation on over current and earth protection requirements.

1.3 Cable provided must be of appropriate colour codes and sizes meeting to approve IEC PV regulation requirement.



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Panel Set B

2.2 PV Module and array requirement are listed below:

Four PV Polycrystalline modules pre-mounted and connected with following requirement on each PV module

- Power = 375 W Minimum
- Voltage = 18V
- Isc = 8A
- Voc = 43V

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 0, 15, 30, 45, 60, 75, 90 degrees to horizontal position respectively.

Accessories:

All accessories and essential spares required for the full feature training of the set are provided.