



Understanding Solar Tracking System

Nvis 6019



Nvis 6019 Understanding Solar Tracking System is a versatile training system for study and demonstration of Solar tracking.

Solar tracker is a device which tracks the motion of the Sun, thus ensuring that the maximum amount of Sunlight strikes the panels throughout the day.



Features

- Complete training system to study the fundamentals of Solar Tracking
- Microcontroller based Tracking System
- Single-axis and Dual-axis Tracking
- Manual, Time and Auto Modes of operation in Single axis Solar Tracking
- Manual mode of operation in Dual-axis Solar Tracking
- Master Reset Switch for recovery of System
- Emergency Motor Stop Switches
- Tilt Sensors for sensing angle of panel with respect to horizontal plane
- Facility for charging battery using Solar energy as well as DC supply

Technical Specifications

Supply Voltage	: 12V DC
Solar Panel	
Maximum Output Power (Pm)	: 18W
Open Circuit Voltage (Voc)	: 21V DC
Short Circuit Current (Isc)	: 1.07A
Max. Output Voltage (Vmp)	: 17V
Max. Current (Im)	: 1.06A
DC Motor	: 12V
Rechargeable Battery	: 12V, 7Ah
Display	: 20 x 4 LCD
Light Sensor	: Phototransistor
Acceleration/Vibration /Tilt Sensor – 3 Axis	: +5V @ 1ma current
Fuse	: 1Amp (3 Nos.)
DC Adaptor	: 12V @ 1Amp
Dimension (mm)	: W 350 x D 280 x H 55

Designed and Manufactured in India by -

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