



**Solar Power Generation Training System** has been designed considering the solar technology applications in harnessing electricity from Sun. It's a eco friendly way to generate the energy from the Sun. This system will enable students to learn the basic as well as advanced concepts of Solar Photovoltaic energy generation. Being aligned with national solar mission of India we have designed this product to provide opportunity for learner to train themselves.

#### Features:-

- Platform to provide complete understanding of Solar Power Generation and its applications
- Specially designed patch cords for extra safety.
- Built-in Off-Grid Inverter
- Equipped with adequate Protections wherever requires
- Highly accurate microcontroller-based measuring instruments.
- Equipped with multifunction meter to analyze output parameters.
- Manual tracking system
- Designed considering all safety measures.
- System is flexible to operate on mains as well as inverter mode.

#### Specifications:-

##### Solar Panel (3Nos)

- |             |                            |
|-------------|----------------------------|
| ● Cell Type | : Poly (multi) crystalline |
| ● Pm        | : 60Wp                     |
| ● Voc       | : 18V (approx)             |
| ● Isc       | : 6A (approx)              |
| ● Vmp       | : 12V (approx)             |
| ● Imp       | : 5.9A (approx)            |

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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**Inverter**

- DC Input voltage : 12V
- Input Voltage : 190~260V AC
- Output Voltage on Mains mode : Same as input
- Output Voltage on UPS mode : 210~245V
- Output Frequency on UPS mode : 50Hz  $\pm$ 0.1Hz
- Output waveform on Mains mode : Same as input
- Output waveform on UPS mode : Modified Sine wave
- Battery Charging Current : 12A
- Battery Charging Mode : Solar and Grid
- Technology : Microcontroller Based Design
- LED Indication : Mains ON, UPS ON, Low Battery, Charging & Over load

**Charge Controller**

- Solar PV Module Voltage : 35–70V
- Battery voltage : 24V
- Charge Controller type : Maximum Power Point Tracking (MPPT)

**Battery**

- Make : Exide Solar Tubular or equivalent
- Capacity : 40Ah

**Meters**

- DC Voltmeter : 300V,
- DC Ammeter : 20A,
- AC Multi Function Meter : V, I, W, PF, Kwh, F, Kw
- Structure for Solar Panel : Provided

**Safety and Protection**

- MCB : 2 Nos.
- Fuses : Wherever required

**Scope of Learning**

- Study of solar power generation and its application in domestic use
- Effect of shadow on Solar PV system

**List of Accessories**

- Patch Cords of different color scheme
- Single Phase Mains Chord

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