

Order Code -23246727.1 SOLAR TRAINING KIT



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
- Pm
- Voc
- Isc
- Vmp
- Imp

- : Poly (multi) crystalline
- : 60Wp
- : 18V (approx)
- : 6A (approx)
- : 12V (approx)
- : 5.9A (approx)

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

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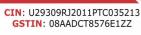
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Tesca Technologies Pvt. Ltd.

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In

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 ±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
- Fuses .

- : 2 Nos.
- : 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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