



Key Features & Technical Specifications

- **Technology:** Pulse Width Modulation (PWM)-based Inverter Technology
- **Design:** Compact and standalone unit with self-explanatory layout
- **Safety:** Test points equipped with insulated sleeves
- **Indicators:** On-board LED indicators for:
 - Inverter ON
 - Mains ON
 - Battery Charging ON
- **Battery:** Rechargeable 12V DC / 7.5Ah, Backup time: Approx. 12 hours
- **Rated Power:** 60W

Electrical Specifications

Charging Transformer

- Type: Step-down
- Input Voltage: 230V AC
- Output Voltage: 16V AC

Inverter Transformer

- Type: Step-up
- Input Voltage: 12-0-12V
- Output Voltage: 230V AC

Inverter Output

- Voltage: 230V \pm 10%

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



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- Frequency: 50Hz \pm 5%
- Control Method: PWM (Pulse Width Modulation)

Relays & Protection

- Relay: 2-Pole, 12V, 285W
- Fuse for Inverter: 1A (integrated on trainer board)
- Mains Fuse: 1A

Power Supply

- Mains Input: 230V \pm 10%, 50Hz, Single Phase

Scope of Learning

This trainer provides hands-on understanding and troubleshooting of single-phase inverter systems. Learners will be able to:

- Comprehend the **functioning of an inverter trainer**
- Analyze **inverter operation under mains supply conditions** and understand the **battery charging process**
- Understand the working principle and function of a **relay** within the inverter circuit
- Study the **AC mains sensing circuit**
- Examine the overall **inverter circuit design and functionality**
- Identify and troubleshoot **common faults** in inverter systems

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