

Energy storage is becoming increasingly important for improving the efficiency, reliability and price-competitiveness of power utilities and Electric Vehicles, and to achieve deeper integration with intermittent renewable energies.

Battery is an energy storage device consisting of two or more electrochemical cells that convert stored chemical energy into electrical energy and used as a source of power. As an energy storage device, the use of the battery is increasing day by day such as in automobiles, inverter, UPS, off-grid renewable energy sources.

46693 Battery Characteristics Trainer introduces students to the operation of Lead-Acid and Li-ion batteries. Hands-on experiments cover the charging and discharging characteristics of lead-acid and Li-ion batteries.

### Applications



Note: Specifications are subject to change.

### Features

- Models for study of battery characteristics of Lead-Acid and Li-iron Phosphate batteries.
- Real time and interactive training setup.
- DC Power source and charge controller.
- Meters and battery level indicator for analysis.
- Designed with all safety standards.

### Experiments

- Study about Battery Construction.
- Study of about Different type of Battery.
- Evaluation of charging characteristics of Battery.
- Evaluation of discharging characteristics of Battery.

### Technical Specifications

#### Battery 1

Type : Li-iron Phosphate (Inbuilt BMS)

Voltage : 12V

Current Capacity : 6-8 Ah

#### Battery 2

Type : Lead Acid

Voltage : 12V

Current Capacity : 6 Ah approx

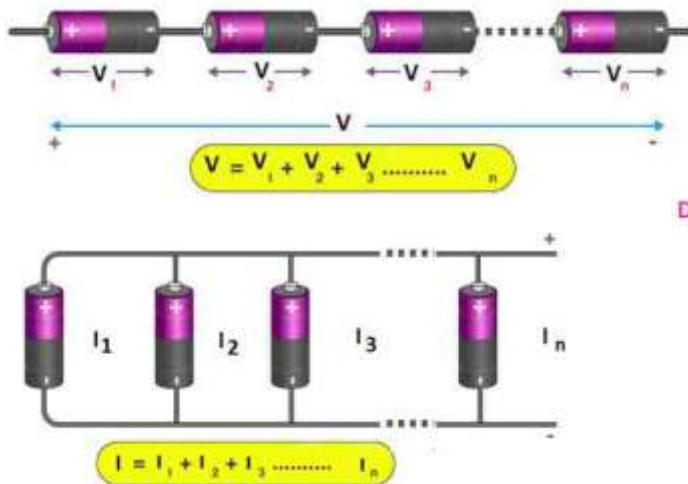
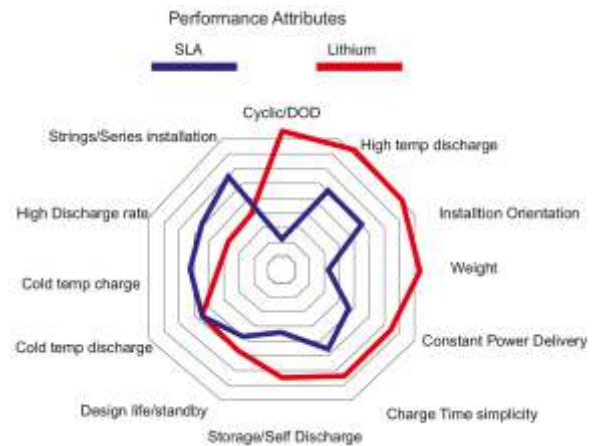
Battery Charger : 1 no. (Suitable for both)

DC Voltmeter : 0-20V

DC Ammeter : 0-10Amp

Interconnection : 4mm Patch cord

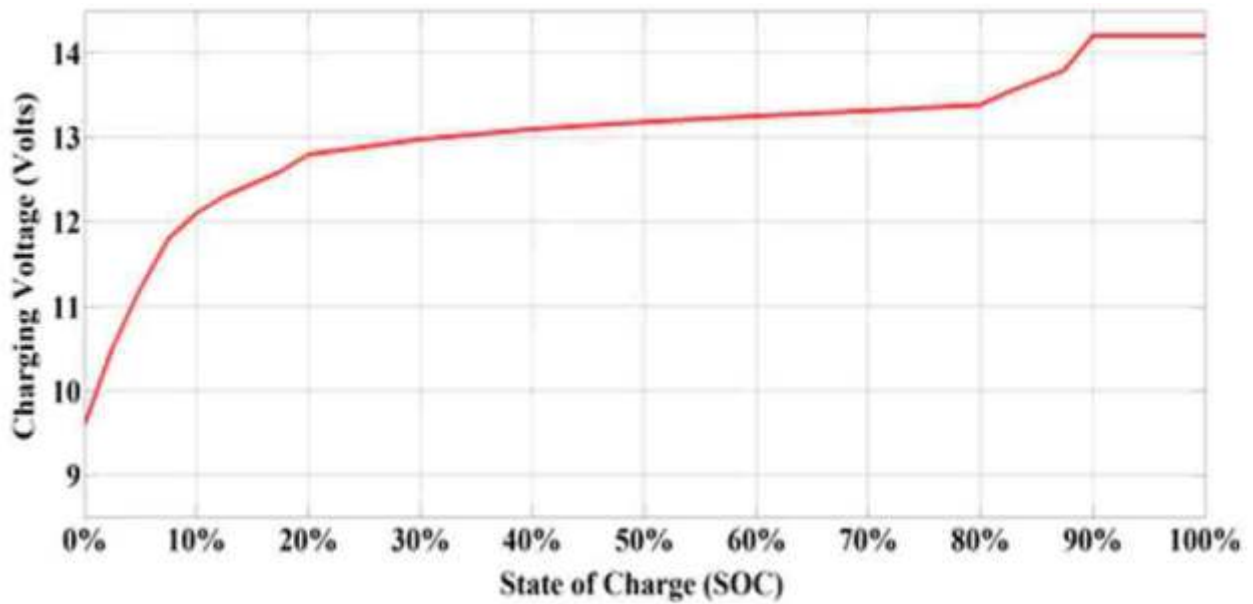
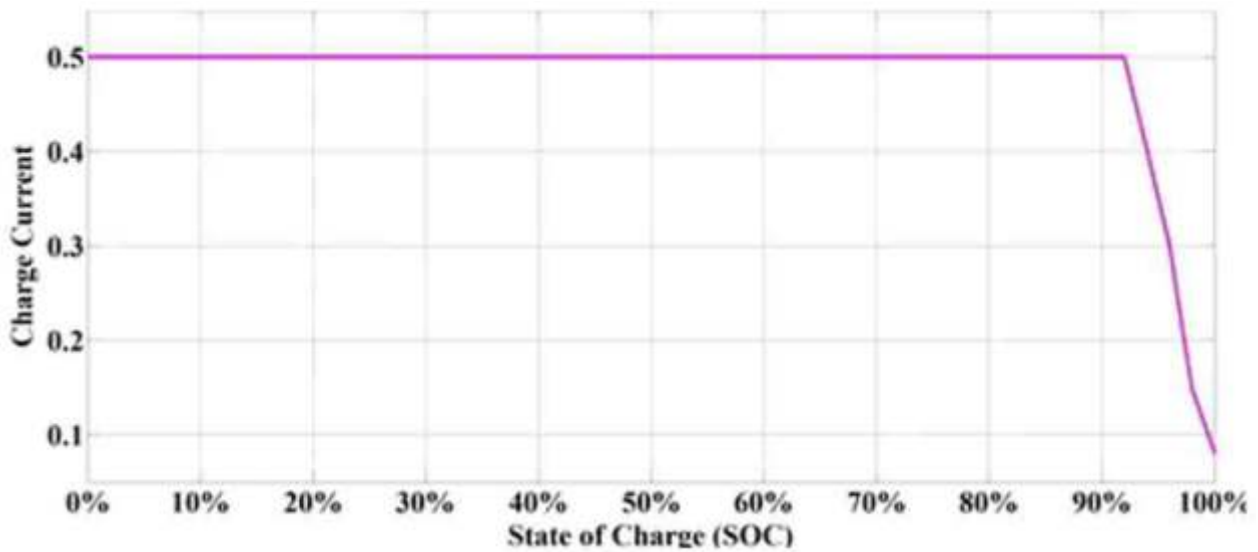
Digital Battery Level Indicator 1 nos.



### Accessories

- Operating Manual-1nos.
- Patch Cord-10 nos.
- Wall poster with attractive study content - 2Qty.

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**Charging curve of a LiFePO4 Battery (Charging voltage Vs SOC)****Charging curve of a LiFePO4 Battery (Charging current Vs SOC)**

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