



THE LAB EQUIPMENT

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Product Name :

Photovoltaic Cells

Product Code :

SLE/ESA/07



Description :

- It uses a commercially available solar panel made from high efficiency cells.
- A solarimeter on the frame measures incident radiation.
- The equipment also includes a second lower rated battery.
- A control module contains the charge controller.
- The panel recharges a choice of two batteries through a charge controller.
- The frame holds a high performance deep cycling battery in a storage box.
- The control module has digital displays and shows the panel and battery storage performance.
- It has indicators to show when the charge controller is in float mode and load cut mode.
- The charge controller recharges the battery at the correct rate of charge without damage to the battery.
- The solar panel is on a wheeled, lightweight frame that allows adjustment of panel angle, relative to the sun.
- This allows students to examine the charge and discharge cycle of the system in a typical laboratory session.

A separate loading unit includes:

- A variable resistive load to show battery performance.
- An inverter to show practical conversion to AC voltages.
- Four switchable lamps to show a practical application.

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