

**Product Code . ILS-ELE-10656**

## Photovoltaic Trainer



### Description

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#### Photovoltaic Trainer




Photovoltaic Trainer system may be expanded by the addition of extra optional solar panels and batteries. A complete 80W solar panel system with instrumentation panel containing a battery charge controller, panel loading system, all relevant instrumentation and an external deep cycle 110Amp hour battery. Instrumentation includes high accuracy solarimeter, panel temperature, electrical charging and load power measurement.

#### Experimental Capabilities of Photovoltaic Trainer

- Measurement of solar panel output characteristics under load and the effect of panel temperature.
  - Examination of battery charge management system.
  - Measurement of overall system performance under load.
  - Investigation of electrical conversion efficiency relative to solar radiation.
  - Investigation of the effect of panel inclination and angle of latitude.
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