

Product Name :
Solar Cell Measurements System

Product Code :
ET 252



Description :

Solar Cell Measurements System

Specification

- [1]
Trainer for solar cell measurements
- [2] Four monocrystalline silicon solar cells
- [3] Lighting unit with adjustable illuminance
- [4] Backing for solar cells with Peltier module for regulating temperature
- [5] Patch panel with bypass diodes and adjustable load resistance for selectable types of connection with individual cells
- [6] Function for automated measuring of characteristic curves
- [7] Reference cell as illuminance sensor
- [8] LabVIEW software with operating status display, tutorial feature and data

acquisition via USB, running under Windows XP or Windows Vista

Technical Data

Cell
type: monocrystalline

Cell size: 125x125mm

Typical
characteristics of a cell:

- fill factor: 76%

- max. output: 2,45W- current at max. output: approx. 4,8A- voltage at max.
output: approx. 0,5V- short-circuit current: approx. 5,4A- open-circuit
voltage: approx. 0,6V

Peltier
module: 15°C .. 60°C Lighting unit: 16x 35W

Dimensions and Weight

LxWxH:
1610x800x1480mm, Weight: approx. 130kg

Connections 230V 50/60Hz

Scope

of Delivery 1 trainer, 1 cable set, 1 LabVIEW
software CD + USB cable

1 set of instructional material

Technical Specification :

Solar Cell Measurements System

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