

Product Name :
Solar Cell Measurements System

Product Code :
ASAGUT876



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



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