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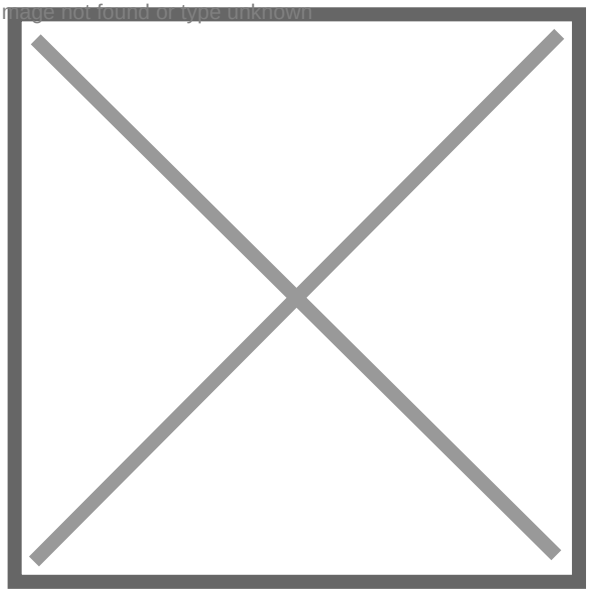
Product Name :

Solar Energy Kit

Product Code :

SCI-165/023

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Description :

Solar Energy Kit (Product Code: SCI-165/023) is a photovoltaic experiment kit used to investigate silicon solar cells as a practical source of power in school and college science labs. It contains eight individual 0.4 V, 100 mA cells that slot into a base tray and can be linked in series, parallel or mixed combinations to run a small motor and fan. The kit is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Solar cells	8 individual silicon photovoltaic cells
Cell rating (each)	0.4 V, 100 mA
Base tray	Holds the cells, gives physical support and allows interconnection
Base tray dimensions	110 x 95 mm
Interconnection	Connector strips provided; series, parallel or series/parallel combinations
Load demonstration	Low-consumption electric motor with mounting components and small fan
Leads	Connecting leads included
Product code	SCI-165/023
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is a Solar Energy Kit Used For?

This kit lets students discover for themselves how solar panels are built up from single cells. Connecting cells in series adds their voltages, while connecting them in parallel adds their currents, and learners can see the effect immediately by watching how the motor and fan respond to each arrangement. Mixed series/parallel layouts show how engineers match a panel's output to the load it has to drive.

A typical lesson starts with one cell and a meter, then adds cells one by one and records the readings in a table. Working in direct sunlight gives the strongest output, and tilting the tray towards the sun is a quick way to show how angle affects power. As a solar cell characteristic kit it also supports project work on renewable energy in senior classes.

What to Specify When Ordering

- The number of kits, usually one per student group.
- Whether you need a multimeter or ammeter and voltmeter to record cell output.
- Any companion items for the same lesson, such as the Solar Buggy or Solar Furnace.

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