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Product Name :

Solar Photovoltaic Large

Product Code :

SLE/PHY/219



Description :

Solar Photovoltaic Large (Product Code: SLE/PHY/219) is a photovoltaic experiment system used to connect school physics lessons with the practical use of solar cells. Five solar modules, together with diode, capacitor, resistor and potentiometer modules, let students build and test real PV circuits, and most experiments work in normal room lighting without an external power supply. This physics experiment kit for school labs is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Kit type	Photovoltaic experiment system, packed in a box with lid
Solar modules	3 x 0.5 V, 420 mA; 1 x 0.5 V, 840 mA; 1 x 1.5 V, 280 mA
Circuit modules	Diode module, resistor module, potentiometer module, capacitor module 220 mF, 2.5 V
Loads	Motor module without gear with color discs set 1; gear motor module; buzzer module
Light and filters	Lighting module (needed only for a few experiments and operated with a student power supply); color filters; solar cell cover set (4 pieces)
Lighting conditions	Most experiments can be carried out in normal room lighting without an external power supply
Base	Solar-Base unit Large
Packing	Box with black vacuum padding (1 top piece, 2 lower pieces) and lid for tray
Documentation	Layout diagram PV Large; info sheet for initial startup
Extras needed (not included)	1 x AV module, 1 x power module, 2 x test lead black 25 cm, 2 x test lead red 25 cm, 1 x laboratory thermometer
Product code	SLE/PHY/219
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Solar Photovoltaic Large Used For?

The Solar Photovoltaic Large is used to turn textbook photovoltaic theory into circuits students can build on the bench. With three identical 0.5 V, 420 mA modules, classes can compare series and parallel connections, then set them against the 0.5 V, 840 mA and 1.5 V, 280 mA modules. The diode, resistor, potentiometer and capacitor modules bring in the components found in real solar installations.

Because most experiments run in ordinary room light, lessons do not depend on the weather or on a and cover ule, powe