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Product Name :

Solar New Energy Ready-To-Go

Product Code :

SLE/PHY/217



Science Lab

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Description :

Solar New Energy Ready-To-Go (Product Code: SLE/PHY/217) is a renewable-energy experiment system in a carry case, used to teach photovoltaics, wind power, hydropower, electric mobility and fuel cells at both primary and junior high school level. It needs no additional equipment, because the power module, hand generator, AV measuring module, cables and both base units travel together, ready for use in any location. This portable science kit for students is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, as part of its range of physics lab equipment in India.

Specifications

Parameter	Detail
Kit type	Ready-to-go renewable-energy system in a case; no additional equipment required
School levels	Primary and junior high school; qualitative and quantitative experiments
Topics	Photovoltaics, wind power, hydropower, electric mobility and fuel cells
Energy sources	Hand generator; solar modules 0.5 V, 840 mA, 1.5 V, 280 mA and 2.5 V, 420 mA; wind machine with wind turbine module; water wheel module; reversible fuel cell
Storage	Capacitor module 5.0 F / 5.4 V; distilled water (100 ml) for the reversible fuel cell
Loads	Buzzer module, light bulb module, LED module 2 mA (red), motor module without gear with color discs set 1, electric model car
Power and measurement	Power module, AV module, potentiometer module; Smart Control measuring and control components
Bases and connections	Solar-Base unit Large and Solar-Base unit small; 2 x short-circuit plug; test leads: 1 black and 1 red 25 cm, 2 black and 1 red 50 cm
Other parts	Lighting module; solar cell cover set (4 pieces); Solar-Wind rotor set; wind rotor set (assembled); silicone tube 12 mm
Case and packing	Case New Energy with insert and studded lid foam
Documentation	Layout diagram Solar-New Energy; info sheet for initial startup; instruction for use of finger protector
Primary-level experiments	From muscular strength to current, then to light, motion and noise; solar cell and solar module driving a motor, buzzer and LED; wind turbine powering a buzzer and an LED; influence of wind direction, rotor blade shape and wind speed; the larger the solar cell, the ...?; from solar cell to solar module; shading of solar modules; water wheel powering a buzzer; influence of water falling height; storage of solar and wind energy; what is an electrolyzer, how can water be split, what is a fuel cell; fuel cell driving the motor and buzzer; energy demand of several consumers; light bulb versus LED; storage and output of energy for e-mobility