
Changsha Fanli Edusupports Co.,Limited

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Solar Photovoltaic System Training Kit



PN:0306020030

Solar Photovoltaic System Training Kit is designed to simulate the operation of solar photovoltaic system to transform solar energy into power electric through silicon cells.**Solar Photovoltaic System Training Kit** can meet the experiments,teaching and researching requirements of solar cell performance testing and photovoltaic applications in relevant professional and curriculum such as solar technology,photovoltaic technologies and its applications,photovoltaic equipment manufacturing and maintenance,photovoltaic materials processing and application technology and etc.in college,technical schools and institutes.**Solar Photovoltaic System Training Kit** allows users to monitor, control and hands-on learning about the principles and operation of a solar photovoltaic harvesting system.**Solar Photovoltaic System Training Kit** consists of photovoltaic modules, solar controller, off-grid inverters, battery, test unit and other components.

Item Part	Specification
Solar Panel	i. Indoor and outdoor usage ii. Type:Monocrystalline silicon

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	<ul style="list-style-type: none"> iii. power generated :20W iv. Working voltage:17V,current 1.1A a. Lamp power: max 500W, 230V b. Open circuit voltage:21V v. Short circuit current: 1.31A Vi. Short circuit protection
Photovoltaic Inverter	<ul style="list-style-type: none"> i. Off-grid inverter ii. Output power: 300VA iii. Inverter efficiency:minimum 75% iv. Output power factor minimum 95% (linear load) v. Output waveform:pure sine wave vi. Frequency:50HZ \pm 1HZ
Photovoltaic Controller	<ul style="list-style-type: none"> i. Rated output voltage: 12/24 VDC ii. Rated output current: 10A iii. Battery terminal limit voltage : 32V iv. Photovoltaic array limit voltage: 48V v. Charging circuit voltage drop:max 0.24V vi. Discharge circuit voltage drop:max0.16V
Measuring and testing unit	<ul style="list-style-type: none"> i. Digital voltage meter and digital current meter ii. Volt-ampere characteristic curve test iii. Color wiring diagrams iv. Terminal test v. Photovoltaic modules, solar controller, inverter, battery test
Battery	<ul style="list-style-type: none"> i. Rechargeable ii. Capacity:7Ah iii. Voltage:12V iv. Reverse, overvoltage and undervoltage protection,Output over-current protection, output short circuit protection
Host	<ul style="list-style-type: none"> i. Portable ii. Host Size: approx.670\times500\times245mm iii. Input voltage:AC220V\pm 10%/50Hz

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