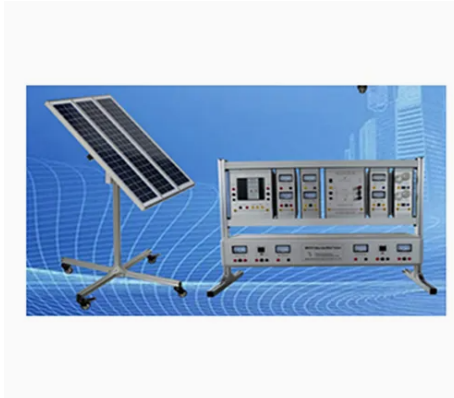


SOLAR PV MEASUREMENT TRAINER

Category: New & Renewable Energy · Model reference: MZM-5011



SPECIFICATIONS

DESCRIPTION

Photovoltaic solar modules convert sunlight directly into electrical current and are therefore an ideal component for renewable energy supply.

The inclination of the modules can be adjusted. Cables can be used to connect the two modules in series or in parallel. Suitable for sunlight and artificial light.

FEATURES

1. TWO (2) pivoting solar modules on mobile frames
2. Each solar module: 18 V, 100 W (Series - 36V, 100W; Parallel - 18V, 200W)
3. Series and parallel connection options
4. Slide resistor as variable load
5. TWO (2) power resistors for expanding the measuring range
6. Measuring amplifier with digital displays for current, voltage, illuminance and module temperature
7. Reference cell as illuminance sensor
8. Module design
9. Number of cells: 36
10. Cell material: monocrystalline silicon
10. Module area: 0.64 m
11. Typical module parameters under STC
12. Max. output: 85 W
13. Short-circuit current (Isc): approx. 5.3 A
14. Open-circuit voltage (Voc): approx. 22 V
15. Slide resistor: 0 - 10
16. Two power resistors: 220 / 50 W
17. Measuring ranges:
 - a. Temperature: 0 - 100 C
 - b. Voltage: 0 - 200 VDC
 - c. Current: 0 - 20 ADC
 - d. Illuminance: 0 - 3 kW/m
18. Inclination: 0 - 90
19. 230 V, 50/60 Hz, 1 phase

TEACHING MODULE SPECIFICATION

1. Variable Resistor (Rheostat) Protection Fuse 2A x 2 units
Excitation Resistor: 0~1k Armature Resistor: 0~100)
2. Bridge Rectifier Nominal Voltage: 3 x 400VAC Nominal current: 10A Surge Forward Current: 300A
3. DC Meter Voltmeter Range: 30V Ammeter Range: 10A
4. AC Meter Voltmeter Range: 50V Ammeter Range: 5A
5. AC Circuit Breaker Circuit breaker for AC 2-pole MCB 3pcs
6. DC Circuit Breaker Circuit breaker for DC 2-pole MCB 3pcs
7. Solar Circuit Breaker Unit 2 pole MCB x2
8. Solar Charge Controller Voltage 24V 0-600W solar system
9. DC Outlet to Inverter Poles number: IDPN Current: 20A
10. DC Power Supply Power Distribution Panel DC Output
+24VDC/2A, +12VDC/7A, +5VDC/7A

11. Single Phase AC Power Supply Input: 220V - 240V
12. Inverter module Inverter
 - Type Pure Sinewave
 - Input voltage: 12VDC
 - Output voltage: 220 - 240VAC
 - Output power: 3000W
 - 1-output AC socket
13. Vertical Frame High level: DIN standard A4 with two shelves
Material: Aluminium, Side Frame: T shape Size: 3-Layer 1450mm
Length approx
14. U-Link
15. Safe Connecting Lead 4mm connecting lead
16. Lux PID Controller DC 12V Input DC 0-12V output
17. Slide Resistor 0~10 50w
18. Battery Lead Acid 12VDC, 80Ah
19. Solar Panel 2 unit - 18 V, 100 W
20. Halogen Lamp 2 unit - (3pcs x 150 500 W, IP44)

Country of Origin

Malaysia

Warranty

24 months warranty against manufacturing defects



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