PVC Solar Panel Trainer

Category: New & Renewable Energy · Model reference: MZM-5005



SPECIFICATIONS

DESCRIPTION:
A solar panel (also solar module, photovoltaic module or photovoltaic panel) is a packaged, connected assembly of photovoltaic cells. The solar panel can be used as a component of a larger photovoltaic system to generate and supply electricity in commercial and residential application. Each panel is rated its DC output power under standard test conditions, and typically ranges of a panel determines the area of a panel given the same rates output– an 8% efficient 230 watt panel will have twice the area of 16% efficient 230 watt panel.
Because a single solar panel can produce only a limited amount of power, most installations contain multiple panels. A photovoltaic system typically includes an array of solar panels, an inverter, and sometimes a battery and or solar tracker and interconnection wiring.

1. POWER INVERTER DC TO AC (MZM-5005-42)
Specification :
- Inverter : 12Vdc to 220Vac
- Continuous power : 5000W
- Surge Power : 1000W
- Rated output voltage : VAC 240V+10%
- Input voltage range : DC11V-24V
- Over voltage shutdown : Over DC 30V
- Under voltage shutdown : Below DC11V
- Output wave form : modified sine wave
- Frequency : 60Hz
- Over load shutdown : Yes
- Thermal shutdown : Yes
- Short circuit shutdown : Yes
- Efficiency : up to 90%
- Total harmonic distortion : <5%
- No load current Draw : <0.4A

2. BATTERY 12VDC (PK95-12)
- (AGM Technology) Absorted Glass Matt
- Voltage : 12V Capacity@20hr
- Metod : Sealed Lead Acid Batt
- Cycle Use : 14.5—14.9 V
- Standby Use : 13.6— 13.8 V
- Initial Current : 30A
- Constant Voltage Charge : 25C

3. SOLAR CHARGER CONTROLLER (MZM-5005-45) 10Vdc—36Vdc
Electrical Parameter
- Nominal system voltage : 12/24VDC Auto work
- Battery voltage range : 6-36V
- Rated battery current GAMMA : 20A
- Charge circuit voltage drop : <0.26V
- Discharge circuit voltage drop : <0.15V
- Self-consumption : <6mA
- Battery charging setting-sealed : 12V-24V
- Over voltage disconnect voltage : 16V-32V
- Charging limit voltage : 16V-31V
- Equalize charging voltage : 15V-29V
- Float charging voltage : 14V-28V
- Boost Reconnect Charging : 14V - 27V
- Low Voltage Reconnect Voltage : 12V - 25V
- Under voltage warning reconnect : 12V - 25V
- Under Voltage Warning Voltage : 12V - 24V
- Low Voltage Disconnect Voltage : 12V - 22V
- Equalize Duration : 2 hours
- Boost Duration : 2 hours

4. Surge Protection Devices (SPD)
- Hager SPV325
- 3 module
- Imax = 25 kAt 1000Vdc
- Replaceable cartridges (Positive/Negative & earth)
- With end of life indicator

5. DC switch disconnected
- Hager SB432PV
- 4 pole c.32A
- 1000Vdc
- 3.5 module width

6. Fuse Carriers & Fuse links
- Hager L501PV single pole
- Hager L502PV Double Pole
- 1 & 2 Module (10.3 x 38)mm d. 1000vdc

7. PV Fuse-carriers
- Hager LF320PV - 20A

8. Solar Module PV
- Poly-crystalline—200 Watt
- Electrical Characteristics

a. Max Power Pmax : 200Wp
b. Max Power Voltage Vmp : 18.00V
c. Max Power Current Imp : 3A
d. Open-Circuit Voltage Voc : 22V
e. Short-Circuit Current ISC : 3A
f. Cell Efficiency : 16.00%
g. Module Efficiency : 13%
h. Power Tolerance : 3%
i. Series Fuse Rating : 10A

Accessories (Solar Training Panel)
1. PV input on/off switch : 2 Unit
2. PV input voltage meter : 2 Unit
3. Surge Protective Device (SPD) : 1 Unit
4. Beta Remote Meter : 1 Unit
5. Beta Charge Controller : 1 Unit
6. 12V Seal Lead Battery : 2 Unit
7. AC240V output Voltage Meter : 1 unit
8. 24VDC to AC240V Power Inverter : 1 Unit
9. DC switch disconnected : 1 Unit
10. Fuse Carriers & Fuse Links : 1 Unit
11. PV Fuse-carries (20A) : 1 Unit
12. 200W Polycrystalline PV : 1 Unit
13. Cable solar (10mm PVC 2 pair) : 2 Unit
14. Portable stand (for solar module PV) : 2 Coil
15. MC4 Connector : 10 Pair
16. Halogen Lamp : 2 Unit

Send Enquiry **Your Name**
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