

Product Name :
Automated Integrated Photovoltaic-Wind Power System

Product Code :
DM193



Description :

Automated Integrated Photovoltaic-Wind Power System

Technical Specification :

Automated Integrated Photovoltaic-Wind Power System

Characteristics of the control and supervision board: 1 dc voltmeter, 1 dc ammeter

General characteristics of the wind power generator:

Easy installation and lightness of the total equipment consisting of generator + tower

Carbon blades

Highly corrosion-resistant aluminum framework

Support for turbine-generator coupling

Rotor diameter: 1.15 m - Weight: 5.85 kg

The equipment starts generating electric power at the wind speed of 3 m/s; output power: 30 kWh/month with an average wind speed of 6 m/s

Brushless alternator

It includes a charge controller that can be connected externally with any type of battery

Electronic control system of voltage versus the rotor speed and the charging state of the battery

Output voltage: 12 $\pm$ 24 $\pm$ 48 Vdc

Anemometer probe for transmission of the value of wind speed and direction to the control and supervision board.

Characteristics of photovoltaic panel:

2 photovoltaic modules

Unitary peak power with radiation of 115 W

Pyranometer probe for measuring the total incident solar radiation

Characteristics of the controller of photovoltaic panel:

Rated voltage: 12 Vdc

Power: 20 A

Characteristics of the measuring system of alternating current quantities

Measurement and display of the following electrical parameters: voltage, current, active power, power factor, instantaneous and average values of power, (supplied or absorbed) energy, measurements in single-phase systems

Characteristics of power consuming apparatuses:

Panel with 5 230 V - 40 W lamps with insertion switches

Characteristics of the battery:

Rated voltage: 12 Vdc

Capacity: 100 Ah Characteristics of the inverter:

Continuous output power: 680 W

Output peak power: 2000 W

Input voltage: 12 Vdc (11 -15 V)

Output voltage: 230 Vac - 50 Hz

Output waveform: modified sine wave

Stop for low battery charge

Protection against input overvoltage

Protection against overload

Protection against short circuit

Protection against overtemperature Power supply: 230 Vac 50 Hz single-phase - 1 kVA

Dimensions: Control panel: 92 x 46 x 72cm

Trolley: 120 x 120 x 200 cm

Rotor diameter: 115 cm

Net weight: 240 kg

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