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Product Name :	**Product Code :**
Automated Integrated Photovoltaic-Wind Power System	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 – 24 – 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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