

VESTA-442

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80W IP65 solar power supply system with lithium battery

IP65

- Solar power supply system
- High efficiency monocrystalline solar panel
- High capacity lithium battery, long life and fast charging
- No need for wiring, autonomy of 360 days in places with light
- Water resistant with IP65 protection.



Reference / Model

VESTA-442 / VESTA-442

Extended autonomy without wiring

Operates up to 360 days with available light

Ideal for remote environments without electrical infrastructure

Advanced energy efficiency

Monocrystalline solar panel with greater than 20% conversion rate

Excellent charging performance even on cloudy or rainy days

High-capacity, durable battery

12.8V/40Ah lithium battery with extended cycle life

MPPT tracking system for optimal charging

Robust and functional design

High-strength and durable aluminum frame

Unique technology to prevent deformation and withstand extreme snow and wind loads

Superior weather resistance

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IP65 rating to ensure protection against water and dust

High-transmittance tempered glass resistant to heavy rain and hail

Wide and versatile applications

Monitoring in urban, agricultural and industrial areas

Forest fire prevention, border and construction site surveillance

Ideal use in rural, remote areas and sustainable development projects

Technical Specifications

Maximum power: 80W (1000W/m² standard illumination test conditions)

Open circuit voltage: 22V DC

Maximum current: 4.4A

MPPT solution (maximum input power tracking algorithm) with constant voltage output

Battery capacity: 12.8 V /40 Ah (512 Wh)

LED charge status indicator

Charging voltage: 15V ~ 18V DC

Maximum charging current: 8 A

Output voltage: 12V DC (± 0.2)

Maximum output current: 3A (total of 2 outputs)

Battery pack overcharge voltage: 14.6V DC

Battery pack over-discharge voltage: 10V DC

Input interface: Aviation photovoltaic plug

Output interface: Standard DC5.5mm diameter male plug, total 2 outputs

Power consumption 0.5 \pm 0.1W (normal temperature, no load when power on)

Storage temperature: 0°C ~ +45°C

Operating temperature under load: -10°C ~ +50°C

Discharge operating temperature: -10°C ~ +60°C

Solar panel dimensions: 670 x 700 x 25 mm

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Battery dimensions: 500 x 98 x 83 mm (1.5 x 98 x 83 mm)

Solar panel weight: 7.2 kg (incl. bracket)

Battery weight: 7.2 kg
