

30W 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-440 / VESTA-440

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/15Ah 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: 30W (1000W/m ² 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 /15 Ah (192 Wh)	
LED charge status indicator	
Charging voltage: 15V ~ 18V DC	
Maximum charging current: 6 A	
Output voltage: 12V DC (±0.2)	
Maximum output current: 3 A (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±0.1W (normal temperature, no load when power on)	
Storage temperature: 0°C ~ +45C	
Operating temperature under load: -10°C ~ +50°C	
Discharge operating temperature: -10°C ~ +60°C	
Solar panel dimensions: 670 x 350 x 25 mm	

VESTA-440

VESTA-440



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Battery dimensions: 500 x 98 x 83 mm	
Solar panel weight: 3.95 kg (including bracket)	
Battery weight: 4.4 kg	