

MPPT SOLAR CONTROLLER

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A DIVISION OF ecopower

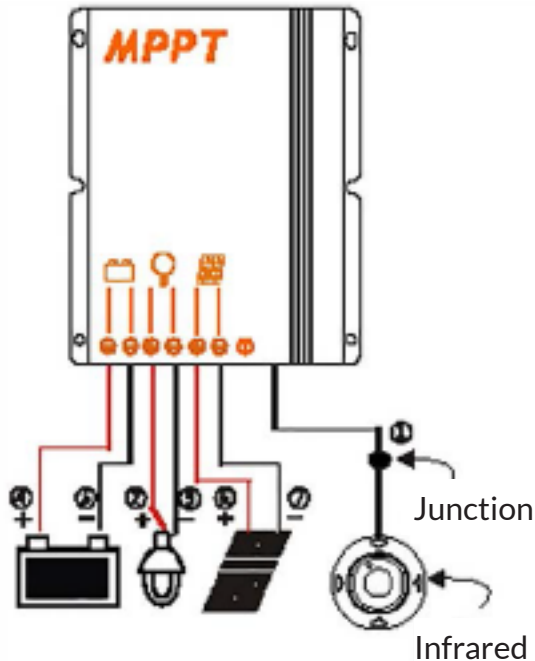


- Innovative Max Power Point Tracking(MPPT) Technology, Tracking Efficiency >99%
- Full Digital Technology, High Charge Conversion Efficiency Up To 96% Discharge Conversion
- 5 Stages Time and Dimming Adjustable, Dimming 0~100%
- Monitors Parameters and Running Status
- If Battery Voltage is Low, Unit Can Be Set To Dimming Automatically
- Idle and Occupancy Light Output Levels Can Be Set
- 12V System Voltage
- Liquid Gel Battery
- Optional Remote Unit to Configure Operating Parameters
- IP67, Strong and Durable Aluminum Case

MODE

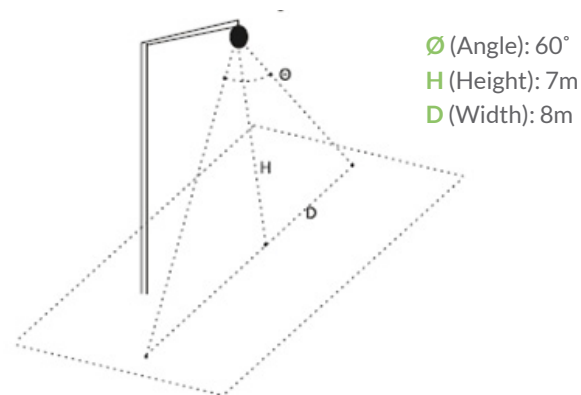
Total rated charging current	10A
Total rated load current	10A
System voltage	24V/12V optional
Over load and short circuit protection	Overload protection time:1.5 times rated current: 10 second, ≥3 times rated current or short circuit
No load losses	≤10 mA
Charging circuit voltage drop	≤0.26V
Discharging circuit voltage drop	≤0.15V
	Lithium gel battery
Overcharge recover voltage	Constant voltage 12.6V
Overcharge protection voltage	3.90±0.025V
Over discharge protect voltage	2.00±0.08V
Over discharge recover voltage	11.1±0.2V; ×2/24V
Control	MPPT technology, tracking efficiency >99%
Working temperature	-35°C to +55°C
Storage temperature	-40°C to +75°C

MPPT SOLAR CONTROLLER CONFIGURATION CONNECTION SEQUENCE



- Ensure the wire length between battery and controller is as short as possible
- Recommended minimum wire size: 2.5mm²
- Installation and testing: for first 30 minutes, charging and discharging conversion takes only 5s. After 30minutes, charging and discharging conversion time takes 5 minutes.

SENSITIVE SCOPE



AUTO DIMMING

The **Dim Auto** item of S-Unit is set to Yes, set **Dim V** and **Dim %** at the same time, press the **Send** button to set up the controller. When the battery voltage is lower than the voltage of **Dim V**, it starts to dim automatically.

Battery voltage reduces per 0.1V, load current decreases according to the setting **Dim %**, the minimum output current is 10% of the setting current.

1. If the controller is set to **Dim** or **Auto Dim**, the minimum output power can be as low as 0.3W.
2. Dimming voltage should not be greater than the voltage of **CVT** (Charging voltage target).