

## SOLAR CONTROLLER

### Performance Features

- Adopt industrial level 16bit MCU with particular control method, which achieves intellectual control of high efficiency and low error.
- Adopt large screen LCD and 4button film switch, which can be used to configure the charge and discharge parameter.
- Adopt alarm buzzer.
- Total of three working mode: light and time control mode (streetlight mode), household mode, time control mode
- Multiple time period control can be achieved under streetlight mode or time control mode.
- Soft start of output reduces the start current impact.
- Online display of the battery voltage, charging current, discharging current, working mode and battery capacity.
- Configure the protection voltage according to different system demands.
- Modify the discharge rate according different types of batteries
- Appropriate battery management: each time the battery is over discharged, the controller will carry out a promotion charge to compensate the battery; normally, use buck charge and floating charge; to prevent sulfuration of battery, the controller carry out promotion charge once a week, which greatly prolongs the battery lifetime; temperature compensation of high precision.
- Configurations of system mode and parameter can be saved in the chip even if the power is removed, which simplifies the operation and promote the reliability of the system.
- Adopt double MOS in series in charge circuit, which divides the voltage drop compared with diode; PWM charge control, which greatly promotes the efficiency and work time.
- Use LED to directly display the status of solar, battery and load, which help users watch the system status all the time; various configure options can help users set appropriate working mode according to different demands.
- Multiple protections: over charge, over discharge, over load, and short, reverse and surge protection; design of no jumpers promote the reliability.
- Adopt industrial level chips and sophisticated components, which can endure different threatening ambient; and adopt particular time set chip to achieve more precise time control and local real time.
- Confirm to EMC and LVD standard

### Product Picture



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## Technical Parameters

Model	SSCP-48-30
Battery voltage	48V
Rating charging current	30A
Rating load current	30A
Over load protection	45A
Short circuit protection	≥100A
No load current	≤30mA
Charge circuit voltage drop	≤0.4V
Discharge circuit voltage drop	≤0.4V
Over voltage protection	66V(Adjustable)
Over voltage resume	60V(Adjustable)
Over discharge protection	42V(Adjustable)
Over discharge resume	50.4V(Adjustable)
Balance charge protection	57.6V(Hold time: 2H)(Adjustable)
Floating charge protection	55.2V(Adjustable)
Temp. compensation	-5mV/°C/2V
Operating temp.	Industrial Level: -25°C to +55°C
Charging method	PWM
Operating altitude	≤4500m
Dimension(mm)	175.5*155.5*48.2
Net Weight(KG)	1.2

## Dimension

