

P2430C

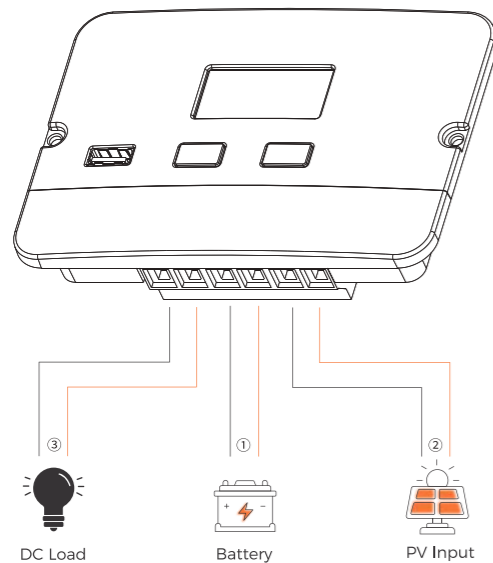
P2430N/
P2440NP2410C/
P2420CP2410/
P2420P1210W/
P2410W/
P2420W

01 Product Features



- Small PWM charge controller, supports 12/24V battery system, shows charging current.
- Two installation options are available, flush mount and flat fixture installations.
- Multiple DC load control modes, and with an extra 5V 1A USB output.
- Supports lead-acid and Li battery charging.

02 Wiring Diagram



Overcharge Protection

Real-time battery voltage detection to prevent battery overcharge damage. It can extend the service life of the battery and ensure the safety of use.



Over Discharge Protection

Real-time monitoring of battery voltage prevents overcharging, which can damage the battery and shorten its lifespan, thereby ensuring safety and extending the battery's service life.



Short Circuit Protection

The output is automatically disconnected when the load end is short circuit to prevent equipment damage.



Reverse Polarity Protection

The reverse polarity protection for both solar panels and batteries ensures safety and facilitates easy operation.



Over Temperature Protection

The controller of the device intelligently activates the over-temperature protection based on its own temperature, ensuring safe usage and extending the service life of the equipment.



03 Controller Specification

PWM Solar Charge Controller
Flush Mount Installation/
Flush Mount and Flat Mount/
USB Output



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Parameter

Value

Model No.	P2410C	P2420C
System Voltage	12V/24V	
Battery Types	GEL/SEL/FLD(Auto) ; LI(Manual)	
No-load Loss	12V/8mA ; 24V/12mA	
Operating Temperature	-35°C ~ +45°C	
Net Weight	0.21kg	
Controller Dimension	130*90*34.6mm	
Max Charging Current	10A	20A
PV		
Max Solar Input Voltage	< 55Voc	
Max Solar Input Power	170W/12V 340W/24V	340W/12V 680W/24V
Load		
Max Load Output Voltage	10A	20A
Light Control Voltage	5V*N	
USB Output	5V 1A	

Battery Parameters

Battery Types	GEL (Default)	SEL	FLD	USE	LI (LiFePO ₄)
Equalize Charge Voltage	--	14.6V*n	14.8V*n	Default	--
Boost Charge Voltage	14.2V*n	14.4V*n	14.6V*n	Default: GEL	Default: 14.2V*n
Float Charge Voltage	13.8V*n	13.8V*n	13.8V*n	Default: GEL	--
Boost Charge Recovery Voltage	13.2V*n	13.2V*n	13.2V*n	Default: GEL	--
Over-Discharge Recovery Voltage	12.6V*n	12.6V*n	12.6V*n	Default: GEL	--
Over-Discharge Voltage	11.1V*n	11.1V*n	11.1V*n	Default: GEL	Default: 11.1V*n
Temperature Compensation	(-3mV/2V/°C) (-3mV/2V/°C) (-3mV/2V/°C) Default: GEL --				