

## WL4 CC-PWM-30-USB datasheet

### Solar Panel Charge Controller Manual

#### SAFETY INSTRUCTIONS

1. Make sure your battery has enough voltage for the controller to recognize the battery type before installation.
2. The battery cable should be as short as possible to minimize loss.
3. The regulator is only suitable for lead acid batteries: OPEN, AGM, GEL. It is not suitable for nickel metal hydride. Lithium ions or other batteries.
4. The Charger regulator is only suitable for regulating solar modules. Never connect another charging source to the charge regulator.



#### PRODUCT FEATURES

- Built-in industrial micro controller
- Large LCD display, all adjustable parameter
- Fully 3 stage PWM Charge management
- Built-in short-circuit protection, open-circuit protection, reverse protection, over-load protection.
- Dual MOSFET reverse current protection, low heating dissipation.

#### SYSTEM CONNECTION STEP

1. Connect the battery to the charge regulator - plus and minus.
2. Connect the photovoltaic module to the regulator-plus and minus.
3. Connect the consumer to the charge regulator-plus minus

#### TECHNICAL SPECIFICATION

Batt Voltage	12V/24V Auto adaptation	
Rated Charge Current	30A	60A
Rated Discharge Current	10A	20A
Increase charging Voltage	B3 open type 14.6V	
Max Solar Input	12V System <23v/24V system <46V	12V System < 25v/24V system < 50V
Float Voltage	13.7V default (Adjustable range 13~15V)	
Discharge Cut-off voltage	10.7V default ((Adjustable range 9~11.5V)	
Discharge recovery Voltage	12.6V default ((Adjustable range 11.5~13V)	
Standby current	≤10mA	
USB output	5V/2A Max	
Working Temperature	-35~+60	

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#### *TROUBLE SHOOTING*

TROUBLE	TROUBLE REASON	SOLUTION
Charge icon not on when sunny	Solar panel opened or reversed	Reconnect
Load icon off	Mode setting wrong, battery low	Set again, recharge
Load icon flashing	Over Load; battery too low reverse	Reduce load watt, check battery/connection

