

User's Manual

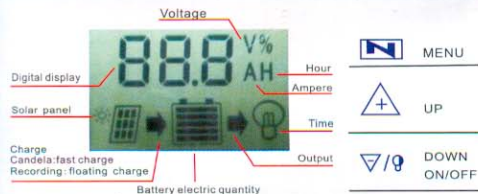
SAFETY INSTRUCTIONS

- The controller is divided into 12V/24V, 36V/48V, 36V/48V/60V models, which are automatically adapted according to the selected charging voltage. When installing for the first time make sure the battery has enough voltage to allow the controller to recognize the correct battery type.
- The battery cable should be as short as possible to minimize loss.
- This controller is suitable for all kinds of lead-acid batteries (including open, sealed, colloidal and other batteries). If you charge other batteries, you must be familiar with the battery characteristics, and you must set the appropriate charging parameters before you can use it. **You can't charge lithium batteries if they are not set!** For example: charge 12V lithium battery, prohibit output protection setting 9.5V, full protection 12.2V, start charging voltage 11.5V when the battery drops.
- The charge regulator is only suitable for regulating solar modules. Never connect another charging source to the charge regulator.
- The controller will heat up when it is running. Please pay attention to the controller on a flat, well ventilated surface.

PRODUCT FEATURES

- Build-in industrial micro controller.
- Big LCD display, all adjustable parameter.
- Full 4-stage PWM charge management.
- Built-in lightning protection, overheating, overcurrent, short circuit protection, open circuit protection, reverse connection protection, all automatic recovery type, will not damage the controller.
- Dual mosfet Reverse current protection, low heat production.
- The regulated high-current side is charged and placed, and the load is stably supplied to the load under full load conditions, and is suitable for Solar street lamp, use in an inverter or a monitoring device.

LCD DISPLAY/KEY



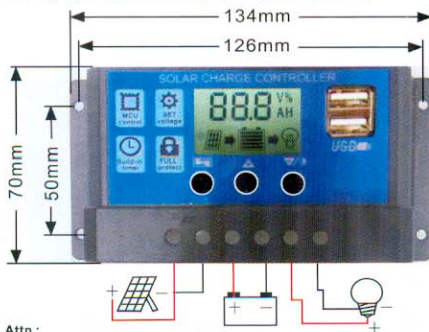
MENU: Used to switch between viewing parameters or modifying parameters. Short press to enter the menu. Press the up or down button when the flashing is completed. After the modification is completed, it will automatically return to the voltage display main interface after 3 seconds.

UP: press to increase value.
DOWN: Press to decrease value

SYSTEM CONNECTION

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

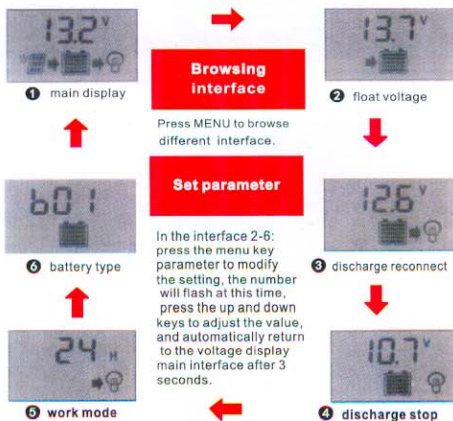
The reverse order applies when deinstalling!
An improper sequence order can damage the controller!



Attn :

- Press the [DOWN] button to ON/OFF load manually at main display.
- The work mode is working as below:
[24H] load output 24 hours
[1-23H] load on after sunset and closed after setting hours
[OH] Dusk to dawn

DISPLAY/SETTING



TROUBLE SHOOTING

Situation	Probable cause	Solution
Charge icon not on when sunny	Solar panel opened or reversed	Reconnect
Load icon off	Mode setting wrong	Set again
	Battery low	Recharge
Load icon slow flashing	Over load	Reduce load watt
Load icon fast flashing	Short circuit protection	Auto reconnect
Power off	Low Battery voltage /reverse	Check battery/connection

TECHNICAL PARAMETER

MODEL	BL915A	BL915B	BL915C	BL915D	BL915E	BL915F
Charge current	10A	20A	30A	40A	50A	60A
Discharge current	10A	10A	20A	20A	25A	25A
Equalization	B01 Lithium	B02 Gel	B02 Gel	B03 Flood	B03 Flood	B03 Flood
12V/24V	12. 2V/24. 4V	14. 2V/28. 4V	14. 2V/28. 4V	14. 6V/29. 2V	14. 6V/29. 2V	14. 6V/29. 2V
Max Solar input	18V solar panel for 12V battery, 36V solar panel for 24V	<40V				
Equalization	B01 Lithium	B02 Gel	B02 Gel	B03 Flood	B03 Flood	B03 Flood
36V/48V	37V/49V	42V/56V	42V/56V	44V/58V	44V/58V	44V/58V
Max Solar input	54V solar panel for 36V battery and 72V solar panel for 48V	<80V				
Equalization	B01 Lithium	B02 Gel	B02 Gel	B03 Flood	B03 Flood	B03 Flood
60V	61V	71V	71V	73V	73V	73V
Max Solar input	60V battery is charged with 90V solar panel, voltage is less than 100V					
12V Float	14. 2V (default, adjust table)	12. 0--15. 0V				
12V Discharge stop	10. 7V (default, adjust table)	9. 0--11. 5V				
12V Discharge reconnect	12. 5V (default, adjust table)	11. 0--13. 0V				
24V Float	28. 4V (default, adjust table)	24. 0--29. 0V				
24V Discharge stop	19. 0V (default, adjust table)	18. 0--22. 0V				
24V Discharge reconnect	22. 0V (default, adjust table)	22. 0--26. 0V				
36V Float	42. 0V (default, adjust table)	36. 0--45. 0V				
36V Discharge stop	30. 0V (default, adjust table)	27. 0--33. 0V				
36V Discharge reconnect	38. 0V (default, adjust table)	36. 0--42. 0V				
48V Float	56. 0V (default, adjust table)	48. 0--62. 0V				
48V Discharge stop	40. 0V (default, adjust table)	36. 0--44. 0V				
48V Discharge reconnect	50. 0V (default, adjust table)	48. 0--56. 0V				
60V Float	71. 0V (default, adjust table)	60. 0--75. 0V				
60V Discharge stop	50. 0V (default, adjust table)	45. 0--55. 0V				
60V Discharge reconnect	63. 0V (default, adjust table)	60. 0--70. 0V				
Self-consume	<10mA					
USB output	5V/2A Max					
Operating temperature	-35+60 °C					
Size/Weight	134*70*35mm/150g					

*Product specifications are subject to change without prior notice.