CH-LF38415
User Manual

Warning

1. Please read the following instruction carefully to make sure you understand this charger before use.
2. Improper use of this charger will cause batteries badly damaged and other damage.

1.   Product description:

   CH-LF38415 is an intelligent and multifunction charger. It can be used for LiFePO4 battery.

Triple protection guaranteed the safety.

2.   Features:

2.1.   Built in cooling fan to ensure charger long service life.

2.2.   **Intelligent charger designed for any38.4V LiFePO4 battery pack (12 cells capacity >15Ah)**

2.3.   Short Circuit Protection – The output cut off when short circuit is detected.

2.4.   Output Reverse Protection: If the battery polarity is wrong the charger will cut off.

2.5.   Support CC CV (Constant Current Constant Voltage) to charge. When battery is fully charged the charger shut down automatically.

2.6.   Smart LED Displays: It can tell you if the battery is fully charged.

2.7.   An Anderson SB50 connector as output connector.

3.   Operations:

3.1.   There are 6 LED indicator on the charger, it can tell you the state of the charger:

   LED1 (red): Fault Indication; LED2 (green): ≤20% Low Volt; LED3 (green): 40% Too Hot.

LED4 (green): 60% High Temp; LED5 (green): 80% Long Time Charging; LED6 (green): 100% High Volt charging.

- Initial: All 6 LED indicator "Flashing" for 5 sec
- Ready to charge/ Wrong polarity connection: LED2 = Solid green, LED1 = "Flashing Red"
- Perform Charging/ Correct Polarity connection: LED2 = "Flashing Green", LED2 = "Off" (Cooling Fan turn on)
- 20% full charge: LED2 = "Solid Green", LED3 = "Flashing Green", LED1 = "Off"
- 40% full charge: LED2&LED3 = "Solid Green", LED4 = "Flashing Green",   LED1 = "Off"
- 60% full charge: LED2--4 = "Solid Green" , LED5 = "Flashing Green", LED1 = "Off"
- 80% full charge: LED2-5 = "Solid Green", LED6 = "Flashing Green", LED1 = "Off"
- 100% full charge: LED2--6 = "Solid Green" LED1 = "Off"
- If LED1 is on it means something is wrong, please check both charger and battery.

3.2.   Make sure your AC supply source is 99-121V and your battery pack **match with the description 2.2**

3.3.   Connect the charger to the AC outlet. All led flash 5 seconds.

3.4.   Connect DC output to battery pack terminals. Check the charger state according to 3.1 Make sure the Fault indicator (Red Led) should be off in charging.

3.5.   In charging state the cool fan should be running.

3.6.   If the 100% full charge it is better to plug out the input AC.

4.   Technical Specification:

   Rated Input power: 99-121 VAC 45-63Hz

   Output power: **MAX 43.8 VDC15A Max 240W**

   Efficiency: >72%

   Operation Temperature: -10℃-40℃

   Humidity: < 90%

   Battery requirement: **38.4V LiFePO4 battery pack (12 cells capacity >15Ah)**

5.   Notice:

5.1.   Please use it for right battery (Battery requirement, See 2.2)

5.2.   Please connect charger to AC power before connect to battery pack. Otherwise, the charger will NOT charge the pack and you will not get a RED LED indicate charging.

5.3.   The charger maybe faulty if LED1 cannot change to off state after a long time. Please check the battery pack state, if everything is right reset the charger Always place the charger in well-ventilated , dry environment and indoor use only

5.4.   Do not cover the case to avoid over heating when charging. In charging state the cooling should be running.

5.5.   Subject to change without prior notice, please contact us for the latest information.