

CMTD Series Solar Charge Controller

User's manual

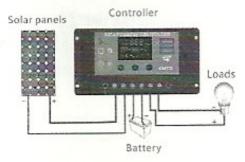
Product Introduction

CMTD series solar charge controller is a kind of intelligent, multi-functional solar charge and discharge controller. All the controlling parameters can be reset flexibly to satisfy your different needs.

This controller has the following features:

 Visual LCD graphic symbol 	Brief key operationon
 Automatic identification system voltage level 	Intelligent PWM charge mode
Adjustable charge-discharge control	Settable operating modes of loads
Multiple selection of battery	Battery over temperature protection
Battery low voltage protection	Battery reverses polarity protection
Overload & short circuit protection	With Dual USB 5V output

Installation Instructions



As shown in the installation connection diagram, the battery, solar panel, load and controller should be connected by turns. Please connect the battery first, and then the solar panel or load.

Specification

Model	CMTD-2410	CMTD-2420
Max. charge current	10A	20A
Max, discharge current	10A	20A
Max. solar panel input voltage	≤50V	
Rated voltage	12V/24V auto work	
Stop charge voltage	14.7V/29.4V	
Low voltage recovery	12.2V/24.4V	
Low voltage protection	10.5V/21.0V	
USB output voltage/current	5V 2A	
Characteristic	No load loss:≤10mA; Temperature compensation:-3mV/cell/°C	
Operation temperature	-20℃~60℃	

^{*}Parameters may customized by customers.

Setting Instructions and Parameters Display

Parameters setting and checking button Setting method:

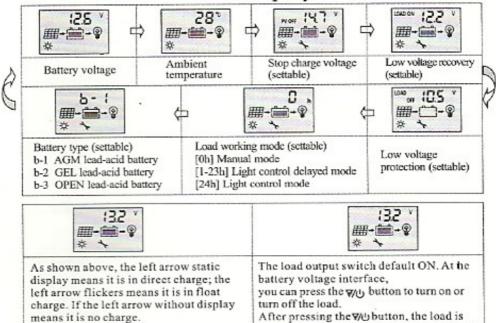
At the setting interface, keep pressing the button for 5 seconds, the figure flickers, it means the controller enters into the setting mode. After finish setting the parameters, shortly press the button and the controller will save the set parameters automatically.

At this interface, when there is no operation for 20 seconds, it will automatically exit the setting mode, cancel to save the parameters and return to the main interface.

▲ Parameters plus button

V/U Parameters minus button (load output switch)





disconnected and the load output is stopped.

Trouble Shooting

10.8 °	Low voltage early alarm	When the voltage of the battery less than 11V (×2/24V), the ▲ icon appears in the bottom of the LCD.
95 °	Low voltage	When the battery voltage lower than 10.5V (×2/24V), the controller enter into the state of low voltage protection, the \(\triangle \) icon appears in the bottom of the LCD and the \(\triangle \) icon flickers. The load is disconnected in order to prevent it from over discharging. At this time, you need to charge the battery. When the battery voltage return to the low voltage recovery 12.2V (×2/24V), the load output restart.
Δ.	Short circuit	When short circuit occurs, it shows as the right figure. The controller will not recover after trying to recover for ten times. At this time, you need to shortly press the \(\nabla \to \) button to turn off the load output, and then the system return to normal work.

GUARANTEE

Customer Name	Telephone	
Model	E-mail	
Bar Code No.	Purchase Area	
Address		

After-Sales Service

1. After the product has sold, i	f the function	failure occurs, you
can choose change or repair it	within	_months.

Warranty: ______ years upon the date of purchase. If the
product exceeds the warranty period or do not belong to the free
repair, our company repair center is still dedicated to serve you.

 Man-made damage, disassemble the product by yourself, product appearance damage and improper use, all of these may cause the invalidation of product guarantee.

Note:

We keep right to change and update without prior notice. Any purchase channel of our product may enjoy the appropriate warranty service and technical service in the local agents or in our company.

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