ABSIMA

CTC-1 TOUCH



www.absima.com

Copyright 2013 @ Absima

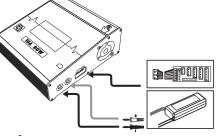
INSTRUCTION MANUAL

Perfomance Parameter

Input Voltage	[DC]	11-18V
	[AC]	100-240V
Charge Current	[A]	0.1 - 10.0
Discharge Current	[A]	0.1 - 5.0
Charge Power	[W]	max.90
Discharge Power	[W]	max.20
Balance current	[mA]	max.350
Balance tolerance	[V]	±0.01
Charging Capability	NiMH/NiCd	1 - 16 cells
	LiPo/LiFe/Lilon	1 - 6 series
Pb battery voltage	[V]	2-20
Discharge	LiPo/LiFe/LiIon	2.0 - 4.2V/cell
Weight	[g]	710
Dimensions	[mm]	142x155x55

Connection

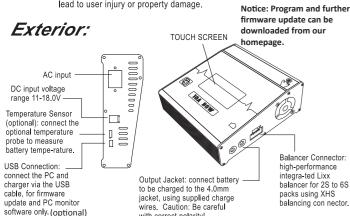
Connection diagram in the balance charging /storage/discharge mode



WARNING: Read the ENTIRE instruction manual to become familiar with the features of the product before operating

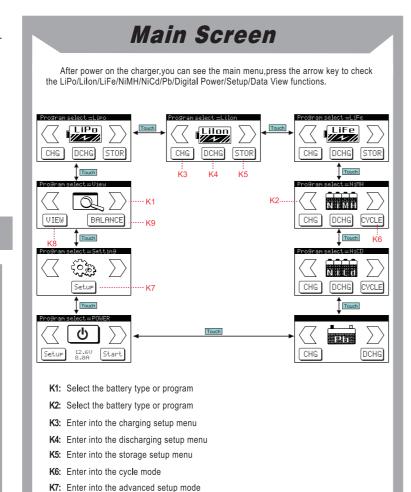
WARNING: Never leave charger unattended, exceed maximum charge rate, charge with non-approved batteries or charge batteries in thewrong mode. Failure to comply may result in excessive heat fire and serious injury.

CAUTION: Always ensure the battery you are charging meets the specifications of this charger and that the charger setting sare correct. Not doing so can result in excessive heat and other related product malfunctions, which can



CAUTION: Always power on the charger before connecting a battery to the charger, or damage to the charger and the battery can result.

- 1. Connect charger to power source.
- 2. Make program selections in the charger for battery charging.
 3. Connect balance adapters to charger.
 4. Connect battery to charger adapters (connect main charging connectors before connecting cell-balancing connectors, where used).
 5. Start battery charging.



Initial parameter set up

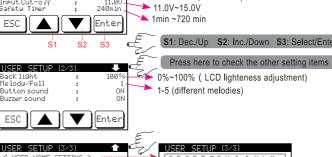
K8: Enter into the data view mode

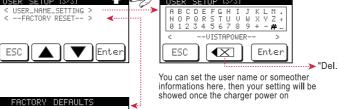
K9: Enter into the balancer mode

Tips: please set up correctly in the "user set" menu before into the job for the first time you

This charger can recognise the cell count of Lithium battery automatically. for the battery voltage lower than the lowest safety voltage charger will not start the charge process. But this charge has a precharge function to restore the battery.you can set the restore time(normally off) in the menu then precharge program will start-up. The more capacity of the Attention:In the normal charge mode, you need to turn off the precharge process.DO NOT use this function unless you know the battery status very well.If the Setur battery voltage increase very few,please stop the precharge process immediately.or it will causea HISER SETTIP (1/3) OFF: 10 min **→** °C / F

> 20°C~80°C(68F~176F)





Are you sure you

NO

want to Reset?

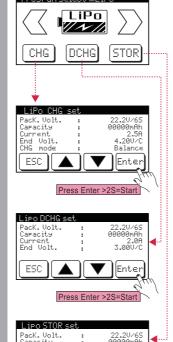
YES

You can reset all the setting to factory

PIs DO NOT use this function unless you are sure that you need the factory reset.

Lithium batteries program

The charge can accept three types of Lithium batteries:LiPo/Lilo/ LiFe; you have to check the battery carefully and set it up correctly, or itwill cause a explode



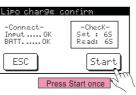
Notice: charger will set the charge current according a rate of 1C automatically when you set the capacity of the battery pack,lf you charge a high-rate battery pack,you can set the value of the "Current" a little

there are 3 modes for Lithium battery charging: auto mode. Balance mode. Fast mode

Start to charge/discharge: after setup the mode menu correctly, press touch key for more than 2 seconds to start the process.

"Discharge mode" theoretically, Lithium battery do not need to discharge, especially deep-discharge. To avoid the overcharge of the individual battery, you should connect the balance plug of the battery to the charger, you can set the discharge cut-off voltage to 3.0V-4.0V

"Storage mode " this is for charging or discharging Lithium battery not to be used for the time being. In order to reduce the wastage, you can select this mode to remain the powerto 40% to store. The final voltage are different from the type of the battery, Lilo:3.75V,LiPo:3.85V,LiFe:3.3V. This is an intellective program, If the voltage of battery at its initial stage is over the voltage level to storage, the program will start to discharge, and if it is lower, the program will start to charge automatically. In order to ensure each battery meets the demand, you should connect the battery pack to the balance port of the charger



Unit

10.0F 25.00V

Graph

▼ Enter

ESC

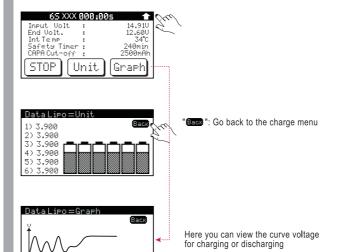
STOP

This screen shows the number of cells you set up and the processor detects "Read" shows the number of cells found by charger and "Set" is the number of cells selected by you at the previous menu. If both number are identical you can start charging by press "Start" button.if not, press "ESC" button to go back to previous menu, then carefully check the number of cells of the battery pack to charge again.

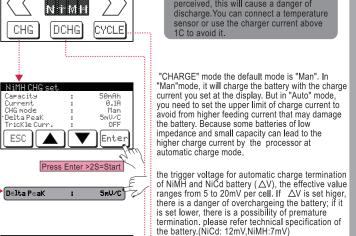
Record the elapsed time of charging/discharging

Internal resistance of the battery pack

Peak temperature which measured by the



NiMH/NiCd battery program



"DISCHARGE" mode the discharge current ranges from 0.1A to 5.0A and the final voltage ranges from 0.1 to 24.0V,the operating method is similar as Lithium battery. The final voltage of NiMH battery is 1.0V/cell, and the NiCd is 0.85V/cell please refer the recommend by the battery manufacturer.

Tips: If the voltage of charging battery is lower than 2.5V, ΔV may can not be perceived, this will cause a danger of

"CYCLE" mode the charger can perform 1-5 cycles of DCHG >CHG or CHG>DCHG continually. You can select it for the new NI** battery or the long time laid NI** battery .please set up carefully, or it will damage the battery! To set the parameter please follow the

When NiMH or NiCd battery is on the cyclic

process of charge/discharge. It may become warm the program insert a time delay function

to allow the battery has enough time to cool

down during the two cycle process. the value

you can set it to time above 10 minutes

ranges from 1 to 60 minutes if you are not sure



▲ | ▼ | Enter

Press Enter >2S=Start

0.1A

▼ Enter

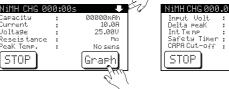
ESC

ESC

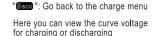
ESC



Press Enter >2S=Start ESC Start







Graph



STOP Graph

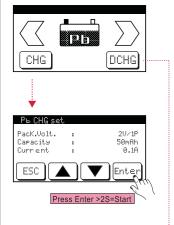
Voltage of the battery Voltage of the battery pack pack when chargin process finished Charged capacity BacK UP Down

when discharging process finished Discharged capacity value

Check the previous cycle Check the next cycle

Pb battery program

This is programmed for charging Pb battery with nominal voltage from 2 to 20V, Pb battery can not be charged rapidly, they can only deliver relatively lower current compare to their capacity, the optimal charge current will be 1/10 of the capacity, please always follow the instruction supplied by the manufacturer of battery.



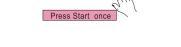
This Mode is for charging Pb battery ,As you can see on the screen,you can set up the charge current on the setting interface, you can set the voltage / capacity / current of the battery here.the charge current ranges from 0.1-8.0A and the voltage should be matched with the battery being charged. start the charge process by pressing "Enter" key for more than 2 seconds.

set the cell count, discharge current and battery capacity in this menu. The discharge current ranges from 0.1-5.0A and the voltage should be matched with battery being discharged. start the discharge process by pressing "Enter" key for more than 2 seconds.

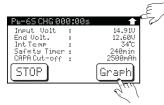
The screen shows the state of charging/discharging process.to stop the process pls press" ESC" key once.

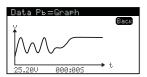


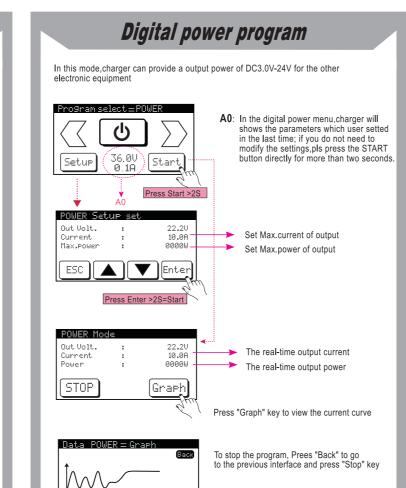
▲ | ▼ | Enter

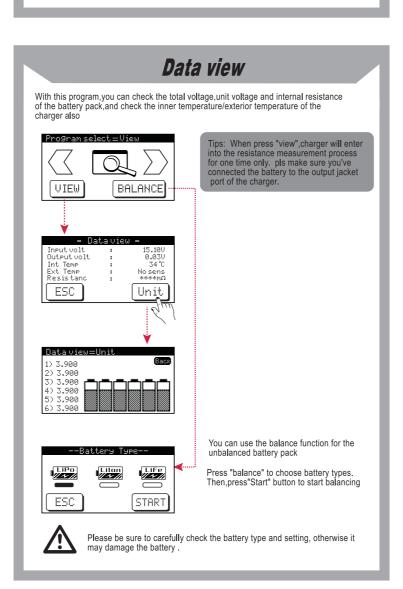






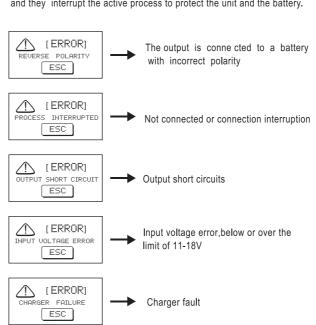


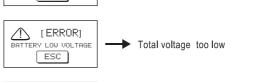


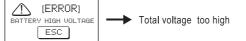


Warning and error messages

The CTC-1 is protected against faults and operator errors by the Multi-Protection-System. Faults/Errors are displayed on the LCD screen and they interrupt the active process to protect the unit and the battery.























After-sale service and guarantee

By returning of the product, the customer, should identify whether the product will be repaired in any case or not. In the case that no warranty or guarantee applies, the product testing and possible repair or service will be charged according to our price list. A guarantee or warranty can only be accepted if a copy of your receipt is attached. On request we will offer you a repair quote. On our repair quote, we are bound for two weeks from the date of issue. By carrying out the repair cost fort he repair quote will not be charged. For quick repair and return service, please provide a detailed description oft he failure and full address details.

COMPLIANCE INFORMATION FOR THE EUROPEAN UNION

Declaration of Conformity



Product(s): Item Number (s): Battery Balance Charger

The object of declaration described above is in conformity with the requirements of the specifications listed below, following the provisions of the European EMC Directive 2004/108/EC

EN 55014-1:2006 EN55014-2:1997+A1:2001 EN61000-3-2:2006 EN61000-3-3:2008

Instructions for disposal of WEEE by users in the European Union



This symbol on the products and / or accompanying documents means the used electrical and electronic products must be at the end of their lifetime separated from household waste. Please take these products for the treatment, recovery and recycling to designated collection points, which will receive the devices free of charge. The proper disposal of this product, prevent any potential adverse effects on humans and the environment which could otherwise arise from inappropriate waste handling at the end of its lifetime. For more details of your nearest designated collection point, contact your local authority. For business users in the European Union. please contact your dealer or supplier for further information if you wish to dispose electrical and electronic equipment. He holds further information ready for you. Information on disposal in other countries outside the European Union. This symbol is only valid in the European Union.

All rights including translation reserved. Reproduction by any method, e.g.photocopy,microfilming,or the capture in electronic data processing systems require the prior written approval by the editor.Reprinting,also in part,is prohibited. These operating instructions repressent the technical status at the time of printing. Changes in technology and equipment reserved.

Absima GmbH Gibitzenhofstrasse 127A D-90443 Nuremberg

Phone.: +49 911 650841 30 Fax: +49 911 650841 40 E-Mail: info@absima.com