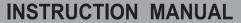
# EV-PEAK

# 



WWW.EV-PEAK.COM **EV-PEAK ELECTRONIC TECHNOLOGY** 

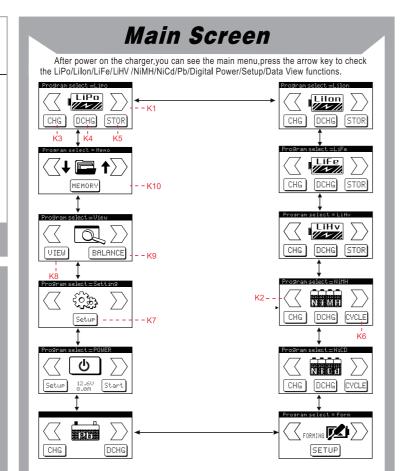


## **Specifications**

Input Voltage	[DC]	15.0 - 32.0 V
Charge Current	[A]	0.1 - 25.0
Discharge Current	[A]	0.1 - 25.0
Charge Power	[W]	1350W
Discharge Power	[W]	100W
Regenerate Discharge	[W]	max.1350
Balance tolerance	[V]	±0.01
Balance current	[mA]	max.1000
Charging Capability	NiMH/NiCd	1 - 30 cells
	LiPo/LiFe/Lilon/LiHV	1 - 8 series / 12 series
Pb battery voltage	[V]	2 -40
Digital power	[V]	5 -50.4
Weight	[g]	1450
Dimensions	[mm]	154x162x84

Connection

Connection diagram in the balance charging /storage/discharge mode

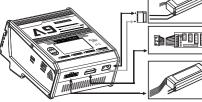


- K1: Select the battery type or program K2: Select the battery type or program
- K3: Enter into the charging setup menu
- K4: Enter into the discharging setup menu K5: Enter into the storage setup menu
- K6: Enter into the cycle mode K7: Enter into the advanced setup mode
- K8: Enter into the data view mode K9: Enter into the balancer mode
  - K10: Enter into memory mode

are sure that you need the factory reset.

# Initial parameter set up

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

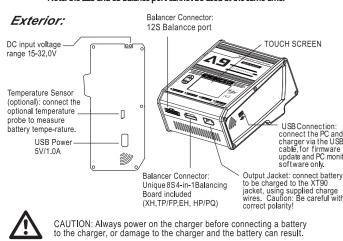


WARNING: Never leave charger unattended, exceed maximum charge rate, charge with non-approved batteries or charge batteries in thewrong mode. Failure to comply may result in excessive heaf, fire



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

#### Note: the 12S and 8S balance port cannot be used at the same time!



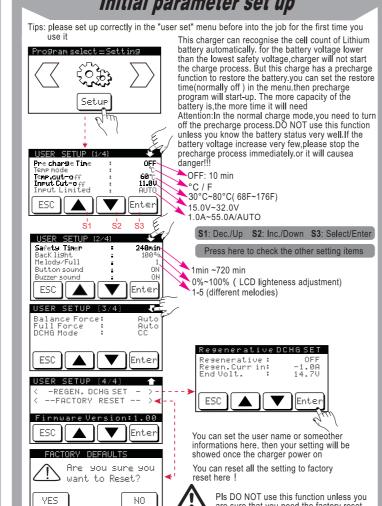
1. Connect charger to power source

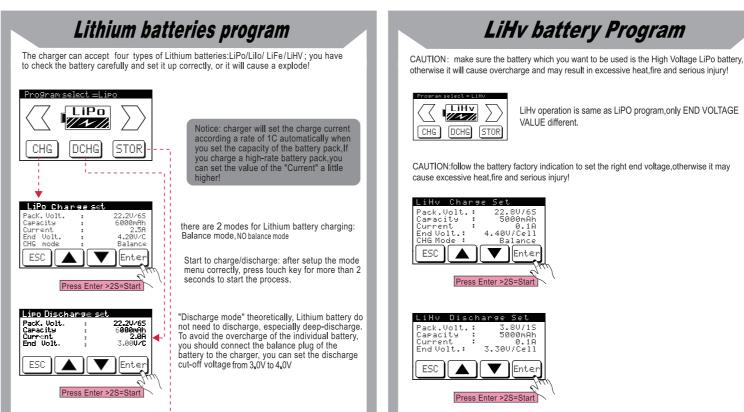
6. Start to charge battery

2. Connect balance adapter to charger 3. Connect battery to balance adapter

4-Connect charger and battery with main charging cable

5. Make program selection in the charger for battery charging





"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 typeof the battery, Lilo:3.75V,LiPo LiHV: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

Record the elapsed time of charging/discharging

➤ Internal resistance of the battery pack Peak temperature which measured by the

"Back": Go back to the charge menu

Here you can view the curve voltage

[ ▲ ][ ▼ ]Enter

65 XXX 000:00s 👚

Unit

Main: 30 MΩ

4>2.5

 $\mathbb{W}$ 

1>2.5 2>2.5 3>2.5

6>5.5 9> ---

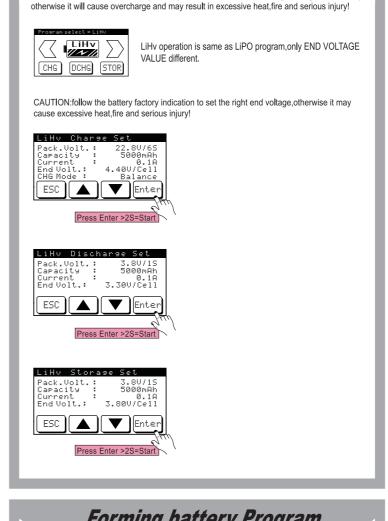
5>4.5

7>4.5 8>5.5 9> ---10> --- 11> --- 12> ---

|Graph|

Graph

STOP | Unit



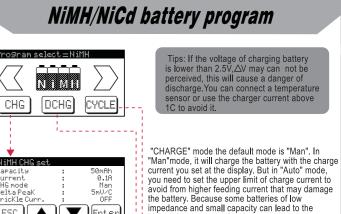
LiHv battery Program



Forming charge is a special function to reactive the NiMH/NiCd batteries which are long time







the trigger voltage for automatic charge termination of NiMH and NiCd battery ( $\Delta$ V), the effective value ranges from 5 to 20mV per cell. If  $\Delta V$  is set higer, there is a danger of overchargeing the battery; if it is set lower, there is a possibility of premature termination, please refer technical specification of the battery (NiCd: 12mV,NiMH:7mV)

higher charge current by the processor at automatic charge mode.

"DISCHARGE" mode the discharge current ranges from 0.1Ato45.0A 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

"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 "Cycle set" menu.



▲ | ▼ Enter

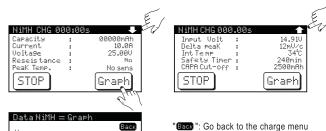
Enter

Press Enter >2S=Star

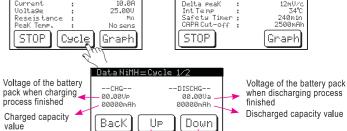
Delta PeaK : 5mV/C

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 ranges from 1 to 60 minutes if you are not sure. you can set it to time above 10 minutes.

Here you can view the curve voltage





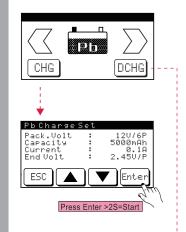


Check the previous cycle Check the next cycle

Forming battery Program

#### Pb battery program

This is programmed for charging Pb battery with nominal voltage from 2 to 24V, 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 0.1-45.0A and the voltage should be matched with the battery being charged. start the charge process by pressing "Enter" key for more than 2 seconds.

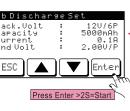
set the cell count, discharge current and

should be matched with battery being

discharged, start the discharge process

by pressing "Enter" key for more than

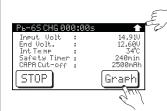
battery capacity in this menu. The discharge current ranges from 0.1-45.0A and the voltage

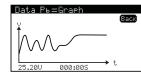


ESC

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

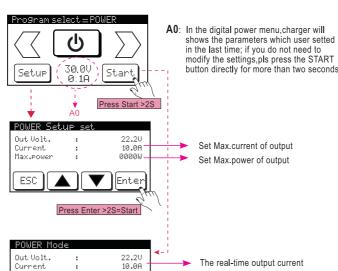


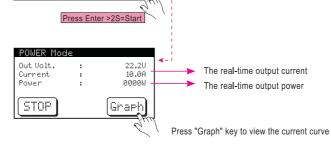




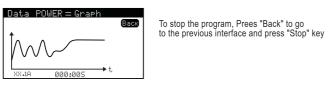
### Digital power program

In this mode, charger can provide a output power of DC5.0V-50.4 V for the other





Data view



BALANCE

Unit

Back RES

LiFe

START

VIEW

ESC

LiPo

ESC

Main: 30 MO

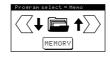
1>2.5 2>2.5 3>2.5 4) 2.5 5) 4.5 6) 5.5 7) 4.5 8) 5.5 9) ---10) --- 11) --- -12> ---

Lilon

## Memory battery Program

1.press the Left and Right Arrows on the LCD touch screen to scroll through the main menu screens until you reach the battery program you would like to save:Program Select=LiPo/LiFe/Lilon/LiHV/NiMH/NiCd/Pb

- 2.press the action at the bottom of the LCD touch screen to enter that menu
- 3.press the parameter to highlight that parameter
- 4.press the Up and Down Arrows to edit the parameter
- 5 press Enter to save the parameter
- 6.If there is more than one screen of parameters, press the top right corner of the LCD touch screen to scroll through the parameter screens.
- 7. Once the parameters are at the desired settings press ESC to return to the main menu
- 8. Press the left and right arrows on the LCD touch screen to scroll through the main menu screens until you reach Program Select=Memory



9 Press Memory

10. Choose an empty memory profile and press it



- 11.press SAVE, the charging parameters you just entered will be saved in that memory profile.
- 12.To use a memory profile, press it, then press LOAD 13.To delete a memory profile press it then hold DEL
- 14.Press top right of the LCD Touch Screen to scroll through all 20 memory profiles.

#### **Charging Warnings**

WARNING:Failure to exercise caution while using this product and comply with the following warnings could result in product malfunction, electrical issues, excessive heat, FIRE, and With this program, you can check the total voltage, unit voltage and internal resistance of the battery pack, and check the inner temperature/exterior temperature of the ultimately injury and property damage.

Fips: When press "view",charger will enter

To stop the program, Prees "Back" to go to the previous interface and press "Stop" key

You can use the balance function for the

Press "balance" to choose battery types. Then,press"Start" button to start balancing

Please be sure to carefully check the battery type and setting, otherwise it

into the resistance measurement process for one time only. pls make sure you've

- 1. Never leave the power supply, charger and battery unattended during use.

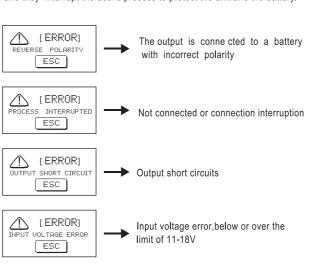
  2. Never attempt to charge dead, damaged or wet battery packs.
- 3. Never attempt to charge a battery pack containing different types of batteries. 4. Never allow children under 14 years of age to charge battery packs.
- 5. Never charge a battery in extremely hot or cold places or place in direct sunlight.
- 6. Never charge a battery if the cable has been pinched or shorted.
- 7. Never connect the charger if the power cable has been pinched or shorted.
- 8. Never connect the charger to an automobile 12V battery while the vehicle is running. 9. Never attempt to dismantle the charger or use a damaged charger.
- 10.Never connect the input jack(DC input ) to AC power.
- 11. Always use only rechargeable batteries designed for use with this type of charger.
- 12.Always inspect the battery before charging.

  13.Always keep the battery away from any material that could be affected by heat.
- 14. Always monitor the charging area and have a fire extinguisher available at all times. 15.Always end the charging process if the battery becomes hot to the touch or starts to change form(swell)during the charge process.
- 16.Always connect the charge cable to the charger first, Then connect the battery to avoid
- short circuit between the charger leads. Reverse the sequence when disconnecting 17. Always connect the positive red leads(+) and negative black leads(-) correctly.
- 18. Always disconnect the battery after charging, and let the charger cool between charges.
- 19. Always charge in a well-ventilated area. 20.Always terminate all processes and contact local dealer if the product malfunctions. WARNING: Never leave charger unattended, exceed maximum charge rate, charge with
- non-approved batteries or charge batteries in the wrong mode. Failure to comply may result in excessive heat, fire and serious injury. CAUTION: Always ensure the battery you are charging meets and specifications of this

charger and that the charger settings are correct. Not doing so can result in excessive heat and other related product malfunctions, which can lead to user injury to property damage.

### Warning and error messages

The A9 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.



Charger fault



♠ [ERROR]













♠ [ERROR] Current exceed the setting in the digital ESC







# After-sale service and guarantee

Thank you for purchasing the this balance charger ,We will do our best to provide you with a comprehensive after-sale service and protect your rights and interests

We warrant this product for a period of one year from the date of purchase, if it has a quality problem itself, all quarantee will be free; In case customers can not provide an effective certificate of purchase, we will refer the date of machine's internal. If it is over one year since the purchase date, an appropriate cost will be charged, users need to bear the transportation cost back and forth. User disassembly, alteration, or damage caused by improper use, they should bear the maintenance and transport costs.

#### COMPLIANCE INFORMATION FOR THE EUROPEAN UNION

Declaration of Conformity



Product(s) Item Numer(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 product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collections point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

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