

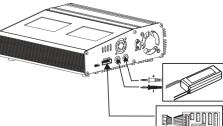
INSTRUCTION MANUAL

Perfomance Parameter

Input Voltage	[DC]	11-18V
	[AC]	110V or 220V
Charge Current	[A]	0.1 - 10.0
Discharge Current	[A]	0.1 - 5.0
Charge Power	[W]	max.90
Discharge Power	[W]	12W
Balance current	[mA]	max.350
Balance tolerance	[V]	±0.01
Charging Capability	NiMH/NiCd	1 - 15 cells
	LiPo/LiFe/Lilon	1 - 6 series
Pb battery voltage	[V]	2-24
Weight	[g]	1250g
Dimensions	[mm]	170×240×56mm

Connection

Connection diagram in the balance charging /storage/discharge mode



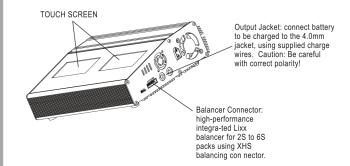
WARNING: Read the ENTIRE instruction manual to become familiar with the features of the product before operating.

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

Exterior:



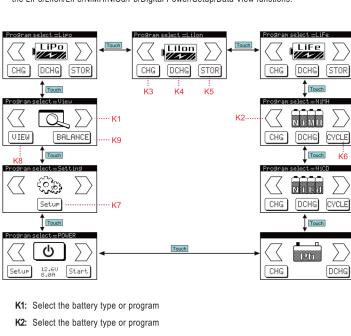


CAUTION: Always power on the charger before connecting a battery to the charger, or damage to the charger and the battery can result

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

Main Screen

After power on the charger, you can see the main menu, press the arrow key to check the LiPo/Lilon/LiFe/NiMH/NiCd/Pb/Digital Power/Setup/Data View functions.



- 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

Are you sure you

want to Reset?

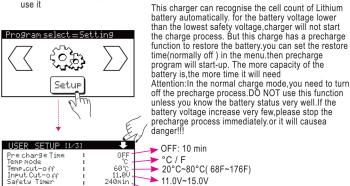
YES

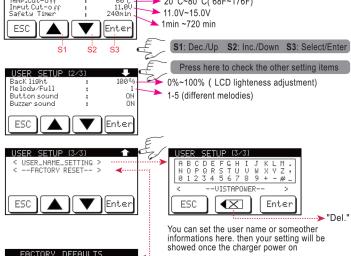
- K8: Enter into the data view mode
- K9: Enter into the balancer mode



Initial parameter set up

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





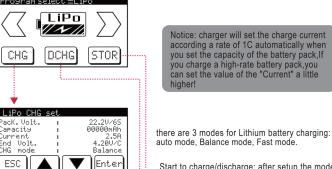
reset here!

You can reset all the setting to factory

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



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!



2.0F

▼ | Enter

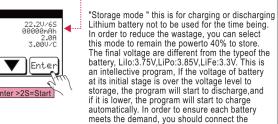
Press Enter >2S=Start

ESC

ESC

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



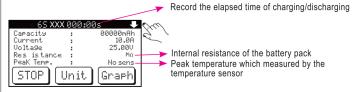


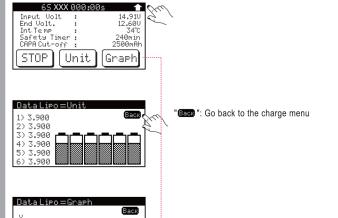
This screen shows the number of cells you set up and the processor detects. "Read" shows the number of cells found by charger and "Set" is the number of cells selected by you at the previous menu. If both number are identical you can start charging by press "Start" button if not, press button to go back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

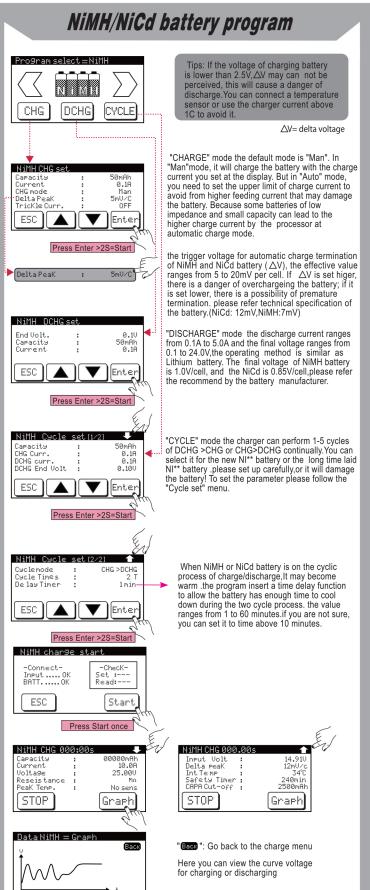
Here you can view the curve voltage

for charging or discharging

battery pack to the balance port of the charger







10.0F

Graph

Data NiMH=C:

00.00Up

BacK

Check the previous cycle

STOP

--DISCHG-

UP

00.00Va aaaaaamet

Down

Check the next cycle

Graph

Voltage of the battery pack

when discharging process

Discharged capacity value

olta90

STOP

Voltage of the battery

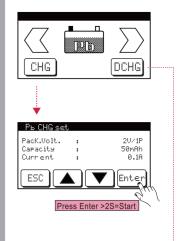
pack when charging

Charged capacity

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.

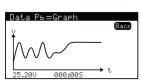
Set the cell count, discharge current and battery capacity in this menu. The discharge current ranges from 0.1-5.0A and the voltage should be matched with battery being discharged. start the discharge process by pressing "Enter" key for more than 2 seconds.

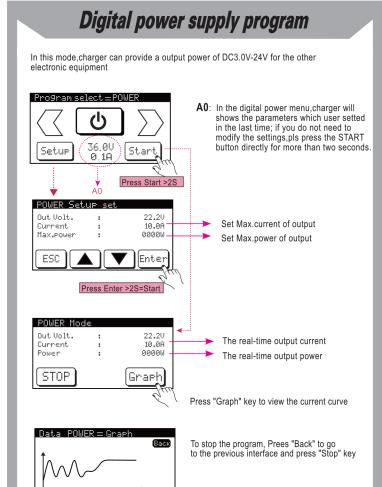


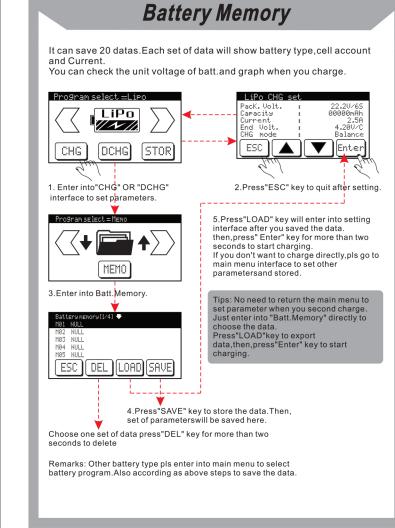
The screen shows the state of charging/discharging process.to stop the process pls press" ESC" key once.

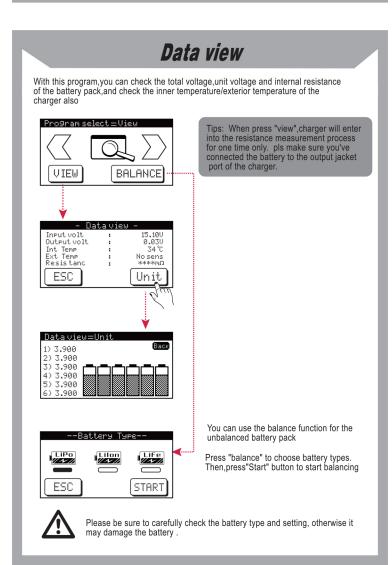


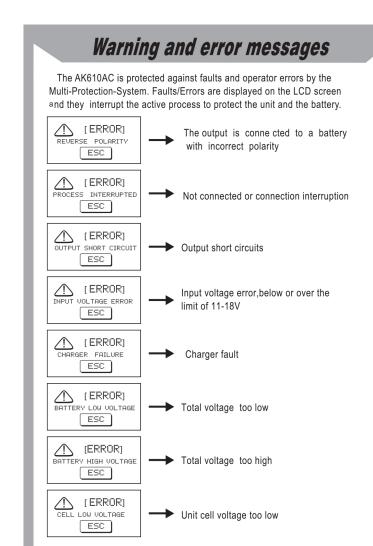












After-sale service and guarantee

Thank you for purchasing the Etronix PowerPal Touch. 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 120 days from the date of purchase, if it has a quality problem itself, all guarantee will be free; In case customers can not provide an effective certificate of purchase, we will refer the date of machine'sinternal. 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) Etronix PowerPal Touch. ET0211

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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