

INSTRUCTION MANUAL

Professional Balance

Charger/Discharger



BG mini v2

BGAC mini v2



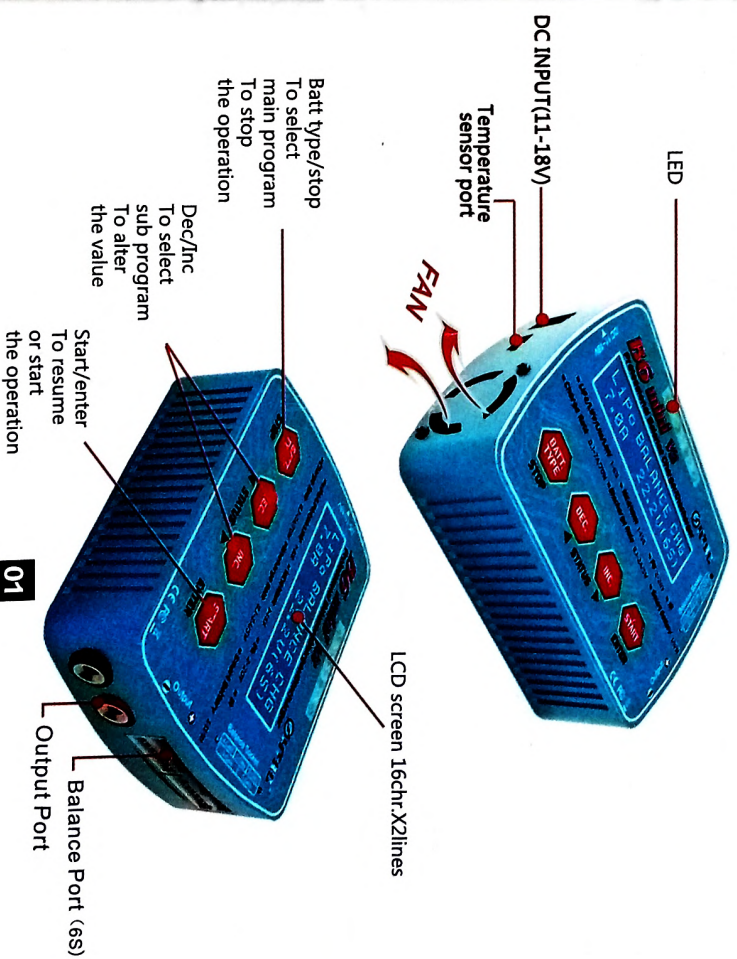
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INTRODUCTION

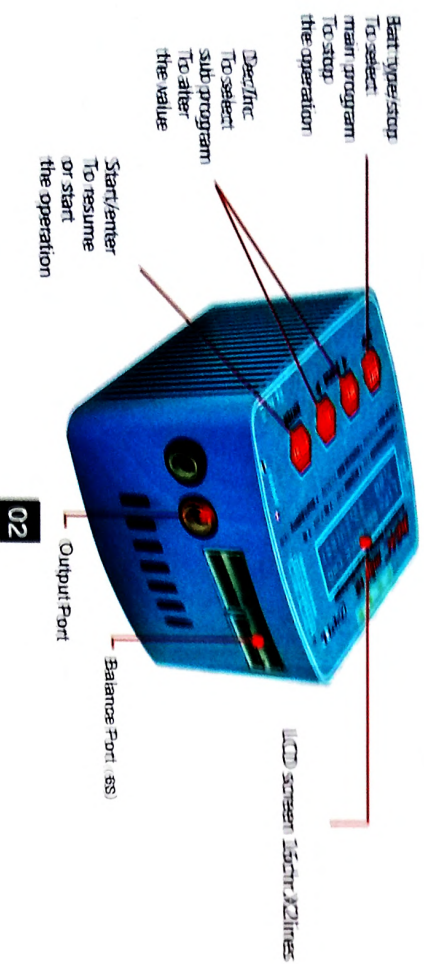
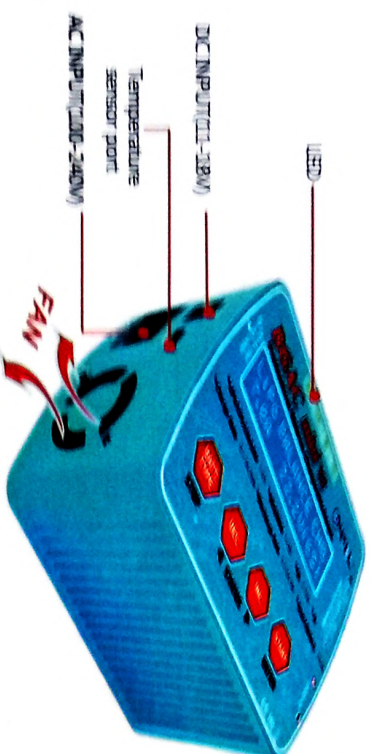
B6 mini V2

Thank You for purchasing the **CHTRC**® charger. Designed for both rookies and Pro-fessionals, this system is extremely versatile. For the safety and the best use of your system, please read this manual carefully



INTRODUCTION

B6AC mini V2



Exquisite appearance and compact

Hold it in my hand

B6 mini V2



B6AC mini V2



Advantage

- Self-contained fan
- Increase LED light,high-end and handsomely design
- Support Lipo/ LiFe/LiIo/LiHV
- Nicd/NiMH/Pb/Smart Battery
- It can automatic identification of battery cells
- meter the internal resistance

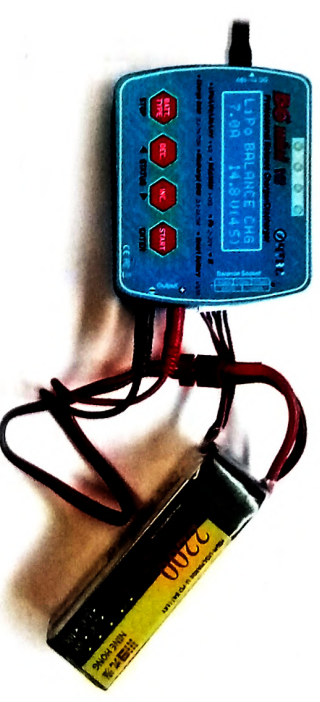
Knowledge information of led

- 1 Standby:The four lights was flashing slowly
- 2 Charging:Turn lights from right to left
- 3 Discharging:Turn lights from left to right
- 4 Errors: The four lights flashing frequently
- 5 Fully: The four lights were solid blue.

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Charging connection diagram

B6 mini V2



B6AC mini V2



05

SPECIFICATION

B6 mini V2

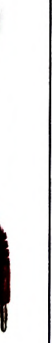
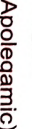
	B6 mini V2	
Power Supply	DC 11-18V	
Display	1602 LCD Screen	
Supported Battent	LiPo,Liion,LiFe,LiHV 1-6 cells	
	NiCd ,NiMH 1-15 cells	
	Pb(Lead Acid) 2-20V	
	Smart Battery I/II/III	
Charge Power	70W	
Charge Current	0.1- 7 A	
Discharge Power	5W	
Discharge Current	0.1-2.0A	
Balancing current	400mA	
USB Output	—	
Sub Function	Digital Power, Balancer, IR Test	
Languages	English	
Ext.Temp socket	Futaba 3P socket	
Memory	10 memories	
Dimensions	L103* W84* H32mm	
Weight	220g	
Smart battery	5-25V,0.1-7A	

Accessories	
	1pcs
	1pcs
	1pcs
	1pcs
	1pcs
	1pcs

SPECIFICATION

B6AC mini V2

	B6AC mini V2	
AC INPUT	100-240V	
Power Supply	DC 11-18V	
Display	1602 LCD Screen	
Supported Battent	LiPo,Liion,LiFe,LiHV 1-6 cells	
	NiCd ,NiMH 1-15 cells	
	Pb(Lead Acid) 2-20V	
	Smart Battery I/II/III	
Charge Power	70W	
Charge Current	0.1- 7 A	
Discharge Power	5W	
Discharge Current	0.1-2.0A	
Balancing current	400mA	
USB Output	—	
Sub Function	Digital Power, Balancer, IR Test	
Languages	English	
Ext.Temp socket	Futaba 3P socket	
Memory	10 memories	
Dimensions	L103* W84* H55mm	
Weight	435g	
Smart battery	5-25V,0.1-7A	

Accessories	
	1pcs
	1pcs
	1pcs
	1pcs
	1pcs
	1pcs
	1pcs

CAUTION and NOTES

- ⚠ This charger is ONLY suitable for charge rechargeable LiPo, Lio, Life, LiHv, NiCd, NiMH, Smart and Pb batteries. Do not attempt to charge dry cells. Charge other types of batteries may cause fire or explosion.
- ⚠ Set up the Input Power Limit/Low Input VOLT Cut off correctly in the USER SETTING for the DC power supply.
- ⚠ Pay attention to the charger during use. Do not leave the charger unattended.
- ⚠ Never charge the dead or damaged batteries.
- ⚠ Do not attempt to charge a battery pack containing different types of batteries.
- ⚠ Do not use a too short or damaged cables.
- ⚠ Do not use the charger close by a flammable object. Use only in well-ventilated areas.
- ⚠ Only charge the rechargeable batteries that meet the product specifications of this charger.
- ⚠ Do not allow water, moisture or foreign objects into the charger.
- ⚠ Do not use in humid locations. Do not operate with wet hands.
- ⚠ Do not attempt to disassemble the charger.
- ⚠ Do not use the charger on fleecy materials, such as carpets, blankets, beds and cushions.
- ⚠ Do not block the cooling fan and the air inlet.
- ⚠ Strongly recommend balancing Lithium packs. An unbalanced pack may damage during discharging.
- ⚠ General default charging current is 1 C. Read the manual of the battery and setup the suitable current to charge the battery. Higher charge/discharge current will damage the battery, even cause a fire.

BATTERIES INFO and MAX CHARGE CURRENT

Battery Type	No. of Cells	Rated Voltage(V)	Charger Current(A)
LiHV	1	3.8	0.1-7.0A
	2	7.6	0.1-7.0A
	3	11.4	0.1-7.0A
	4	15.2	0.1-7.0A
	5	19.0	0.1-7.0A
	6	22.8	0.1-7.0A
LiPo	1	3.7	0.1-7.0A
	2	7.4	0.1-7.0A
	3	11.1	0.1-7.0A
	4	14.8	0.1-7.0A
	5	18.5	0.1-7.0A
	6	22.2	0.1-7.0A
LiIo	1	3.6	0.1-7.0A
	2	7.2	0.1-7.0A
	3	10.8	0.1-7.0A
	4	14.4	0.1-7.0A
	5	18	0.1-7.0A
	6	21.6	0.1-7.0A
Life	1	3.3	0.1-7.0A
	2	6.6	0.1-7.0A
	3	9.9	0.1-7.0A
	4	13.2	0.1-7.0A
	5	16.5	0.1-7.0A
	6	19.8	0.1-7.0A
NiMH /NiCd	1	1.2	0.1-7.0A
	2	2.4	0.1-7.0A
	3	3.6	0.1-7.0A
	4	4.8	0.1-7.0A
	5	6	0.1-7.0A
	6	7.2	0.1-7.0A
Pb	7	8.4	0.1-7.0A
	8	9.6	0.1-7.0A
	9	10.8	0.1-7.0A
	10	12	0.1-7.0A
	11	13.2	0.1-7.0A
	12	14.4	0.1-7.0A
NiMH /NiCd	13	15.6	0.1-7.0A
	14	16.8	0.1-7.0A
	15	18	0.1-7.0A
	16	19.2	0.1-7.0A
	17	20.4	0.1-7.0A
	18	21.6	0.1-7.0A
Pb	1	2	0.1-7.0A
	2	4	0.1-7.0A
	3	6	0.1-7.0A
	4	8	0.1-7.0A
	5	10	0.1-7.0A
	6	12	0.1-7.0A
LiPo	7	14	0.1-7.0A
	8	16	0.1-7.0A
	9	18	0.1-7.0A
	10	20	0.1-7.0A
	11	22.0	0.1-7.0A
	12	24.0	0.1-7.0A
LiIo	1	3.7V/cell Max Charge Voltage: 4.2V/cell	0.1-7.0A
	2	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	3	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	4	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	5	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	6	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
Life	7	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	8	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	9	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	10	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	11	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	12	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
LiHv	1	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	2	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	3	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	4	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	5	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	6	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
NiMH /NiCd	7	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	8	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	9	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	10	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	11	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	12	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
Pb	1	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	2	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	3	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	4	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	5	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	6	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
NiMH /NiCd	7	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	8	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	9	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	10	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	11	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	12	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
Pb	1	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	2	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	3	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	4	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	5	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	6	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
LiHv	7	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	8	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	9	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	10	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	11	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	12	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
NiMH /NiCd	1	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	2	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	3	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	4	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	5	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	6	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
Pb	7	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	8	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	9	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	10	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	11	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A
	12	Discharge Voltage Cut off Level: 3.0V/cell or Higher	0.1-7.0A

MAIN MENU INFO

PROGRAM SELECT
Lithium Batt

Enter this program, you can set the work mode(Balance Charge/ Charge/Fast Charge/ Storage /Discharge) and parameter of the LiPo/LiIo/LiFe /LiHV batteries.

PROGRAM SELECT
NiMH/NiCd

Enter this program you can set the work mode(Charge/Discharge/ Cycle) and parameter of the NiMH/NiCd batteries.

PROGRAM SELECT
Pb(Lead Acid)

Enter this program, you can set the work mode(Charge/Discharge) and parameter of the Pb (Lead Acid) batteries.

PROGRAM SELECT
User Settings

Enter this program, you can set the parameter of the charger, some important parameter will affects the work performance of the charger .

PROGRAM SELECT
Extra Function

Enter this program, you can generate the extra functions of the charger, such as Meter LiXx Battery Status, Meter Internal Resistance, LiXx Balancer...etc.

PROGRAM SELECT
Load Memory

Enter this program, you can load 20 sets memories that the charger had worked you can modify the work mode or start working directly

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PROGRAM of LiPo/LiFe/LiIo/LiHV

Press +/- to shift the work modes between the battery and the charger. Press ENTER to select Press STOP to quit

LiPo BALANCE CHG
7.0A 22.2V(6S)
AUTO

BALANCE CHARGE: With this mode, the charger will charge the battery to the termination voltage and balance each cell of the battery pack. Balance port of the battery must be connected.

LiPo CHARGE
7.0A 22.2V(6S)

CHARGE: With this mode, the charger will charge the battery to the termination voltage by CC-CV mode, and stop at 1/10 of setting current.

LiPo FAST CHARGE
7.0A 22.2V(6S)

FAST CHARGE: With this mode, the charger will charge the battery to the termination voltage by CC-CV mode, and stop at 1/5 of setting current.

LiPo STORAGE
2.0A 22.2V(6S)

STORAGE: With this mode, the charger will charge or discharge the battery to the storage voltage. (LiPo: 3.85V/S LiIo: 3.75V/S LiFe: 3.45V/S LiHV:3.90V/S)

LiPo DISCHARGE
2.0A 22.2V(6S)

DISCHARGE: With this mode, the charger will discharge the battery to the termination voltage.

Select Battery Type/Current/Cell Count after work mode selection.

Press +/- button to shift or increase/decrease

Press ENTER to select

Press STOP to quit

Battery Type: LiPo/LiIo/LiFe

Work Mode(selected)

Current 7.0A 22.2V(6S) Cell Count

The character will be blinking during being select

Press ENTER for 2 seconds, the charger will check the battery then enter confirm nterface. Press STOP to cancel, press ENTER to start working.

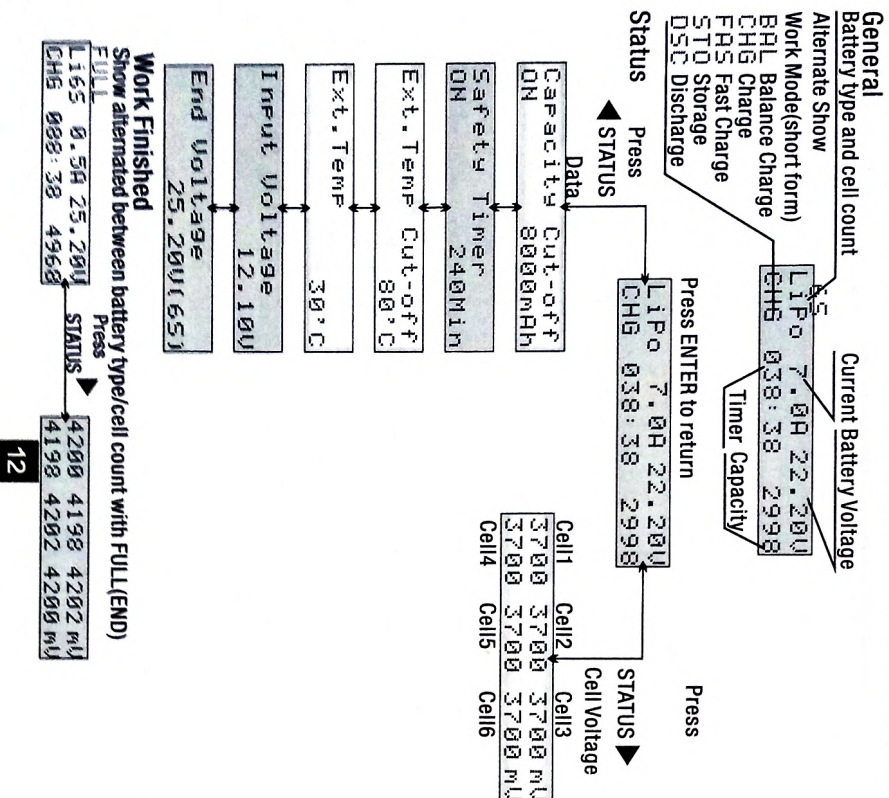
Charger detected Cell Count

R: 65ER S: 65ER
CONFIRM(ENTER)

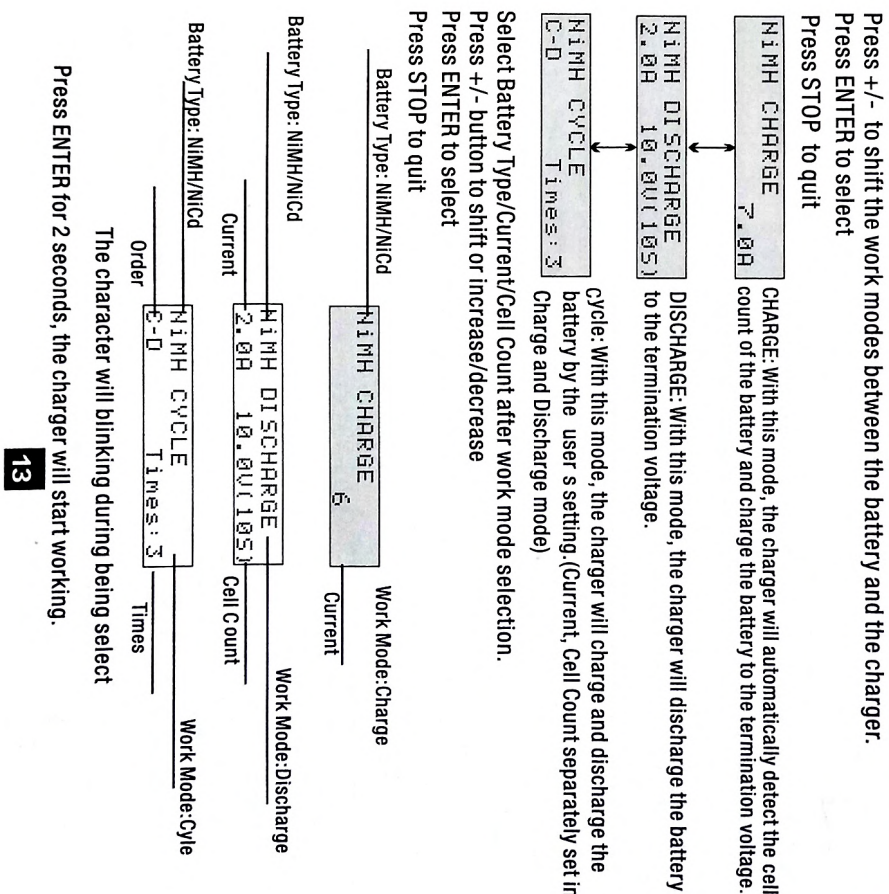
User set Cell Count
CANCEL(STOP)

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PROGRAM of LiPo/LiFe/LiIo/LiHV



PROGRAM of NiMH/NiCd



WORKING INTERFACE

General

Battery type and cell count

Alternate Show

Work Mode(short form)

CHG Charge

DSC Discharge

C-D/D-C Cycle

Work Finished

Show alternated between battery type/cell count with FULL(END).

FULL
NiMH 0.4A 16.00V
CHG 058:38 4968

Status

Press ENTER to return
NiMH 7.0A 22.20V
CHG 038:38 2668

Press STATUS
Data

Capacity Cut-off
ON 8000mAh

Safety Timer
ON 240Min

Ext.Temp Cut-off
80°C

Ext.Temp
30°C

Input Voltage
12.10V

NiMH Sensitivity
7mV

Current Battery Voltage

NiMH 7.0A 10.20V
CHG 038:38 2668

Timer

Capacity

PROGRAM of Pb(Lead-Acid)

Press +/- to shift the work modes between the battery and the charger.

Press ENTER to select

Press STOP to quit

Pb CHARGE
7.0A 12.0V(65)

CHARGE: With this mode, the charger will charge the battery to the termination voltage.

Pb DISCHARGE
2.0A 12.0V(65)

DISCHARGE: With this mode, the charger will discharge the battery to the termination voltage.

Select Current/Cell Count after work mode selection.

Press +/- button to shift or increase/decrease

Press ENTER to select

Press STOP to quit

Current

Pb CHARGE
7.0A 12.0V(65)

Cell Count

Work Mode: Charge

Current

Pb DISCHARGE
2.0A 12.0V(65)

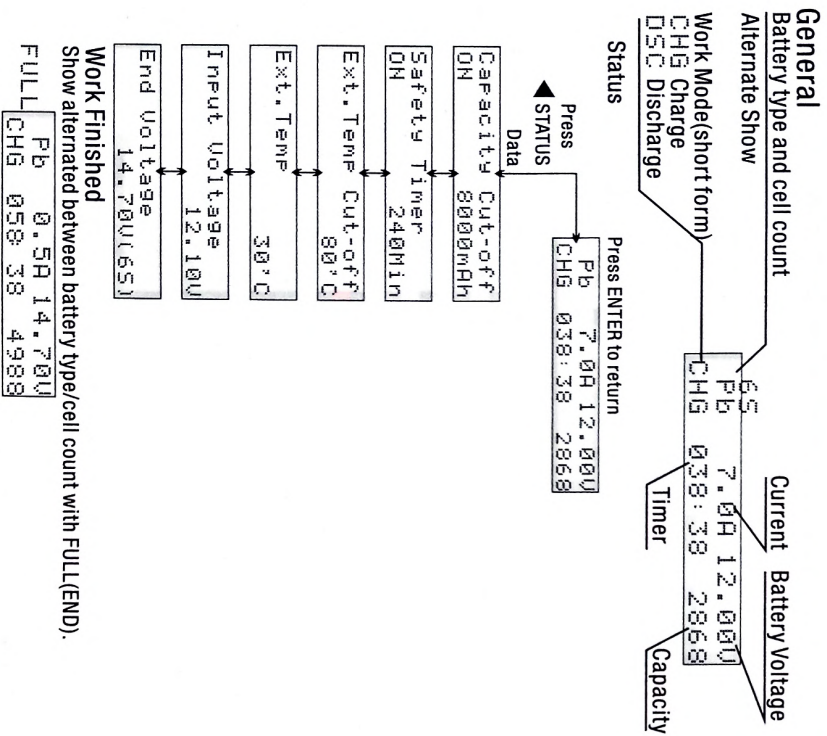
Cell Count

Work Mode: Discharge

The character will be blinking during being select

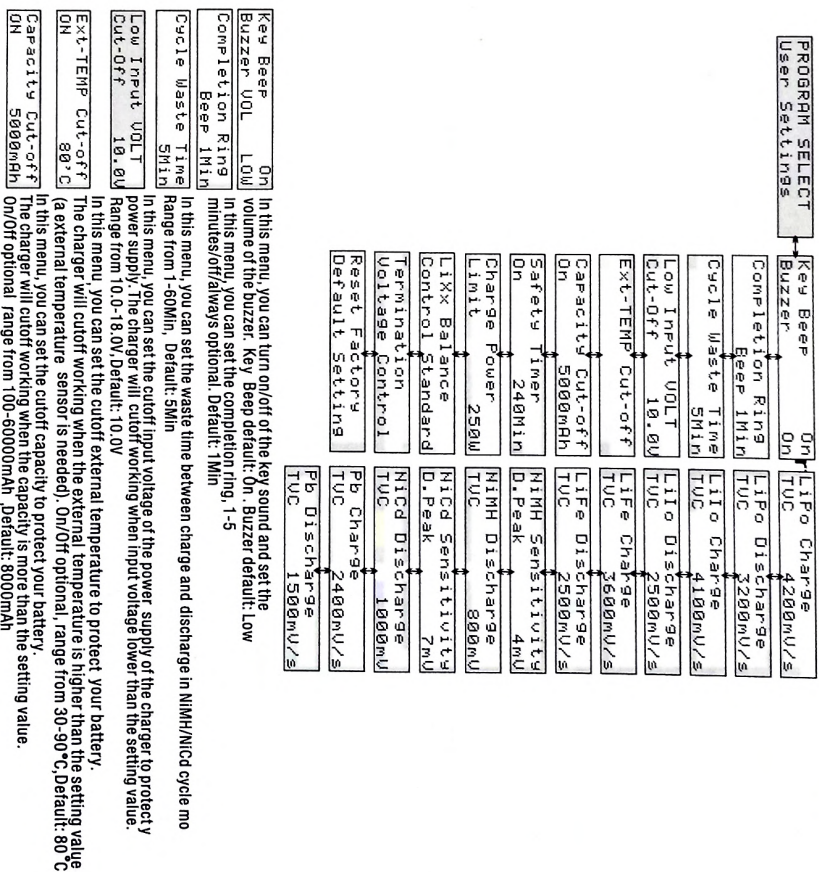
Press ENTER for 2 seconds, the charger will start working.

WORKING INTERF ACE



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PROGRAM of User Settings



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PROGRAM of User Settings

Safety timer	240min
Charge Power Limit	250W
LiXx Balance Control	Standard

In this menu, you can set a safety time to protect your charger and battery. The charger will cutoff working when the safety time is up to the setting value. On/Off optional, range from 10-720 minutes, Default: 240 minutes

In this menu, you can set the charge power limit to meet your power supply. The charge will work under the setting value. Range from 10-250 watt, Default: 250 watt. Standard/Fast/Accurate optional.

Fast, Balance speed fastest, less accurate.

Accurate, Balance speed lowest, more accurate.

Standard, Balance speed and accurateness between Fast and Accurate.

Reset Factory Default Setting

Termination Voltage Control	LiPo Charge
-----------------------------	-------------

LiPo Charge	Range from 3850-4300mV/s
TVC	Default: 4200mV/s
LiPo Discharge	Range from 3000-3850mV/s
TVC	Default: 3200mV/s

Termination voltage control per cell of all the batteries this charger support. You can set the value according to your request.

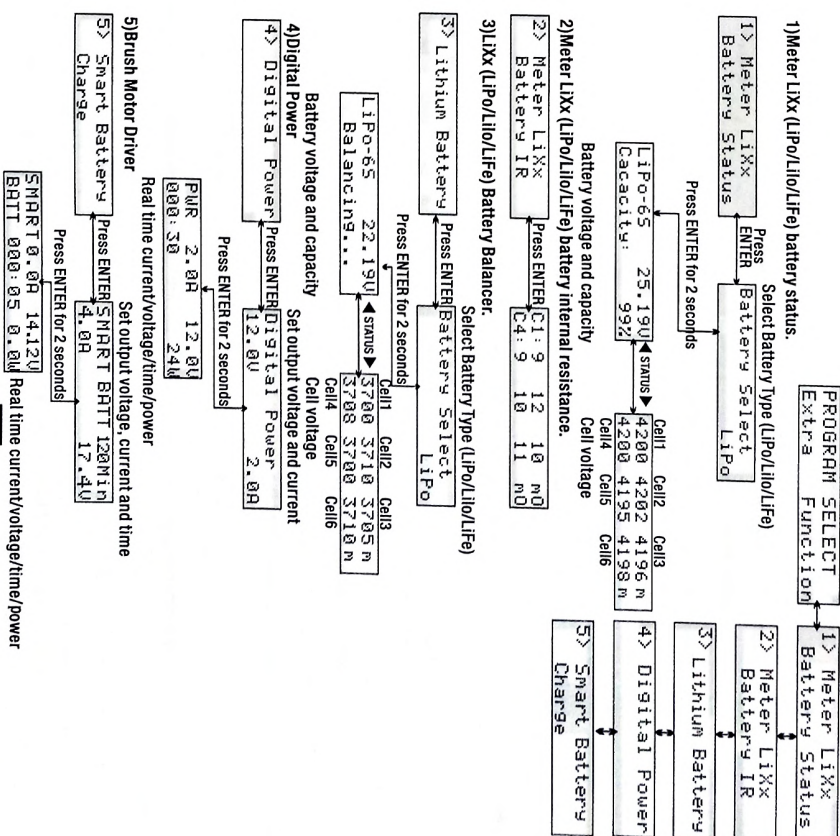
1. For LiHV (4350mV/s) and then enter into the LiPo Mode.
2. For the LiHV or LiPo Battery, it needs to set the spec data, and the system can't auto-identify

LiPo Charge	Range from 3730-4200mV/s
TVC	Default: 4100mV/s
LiPo Discharge	Range from 3000-3750mV/s
TVC	Default: 3100mV/s
LiFe Charge	Range from 3300-3800mV/s
TVC	Default: 3600mV/s
LiFe Discharge	Range from 2500-3300mV/s
TVC	Default: 2500mV/s
NiMH Sensitivity	Range from 4-26mV
NiMH Discharge	Range from 500-1000mV/s
TVC	Default: 800mV/s
NiCd Sensitivity	Range from 4-20mV
D.P. Peak	Default: 7mV
NiCd Discharge	Range from 500-1000mV/s
TVC	Default: 1000mV/s
Pb Charge	Range from 1500-2500mV/s
TVC	Default: 2400mV/s
Pb Discharge	Range from 1000-1500mV/s
TVC	Default: 1500mV/s

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PROGRAM of Extra Function

Menu Chart



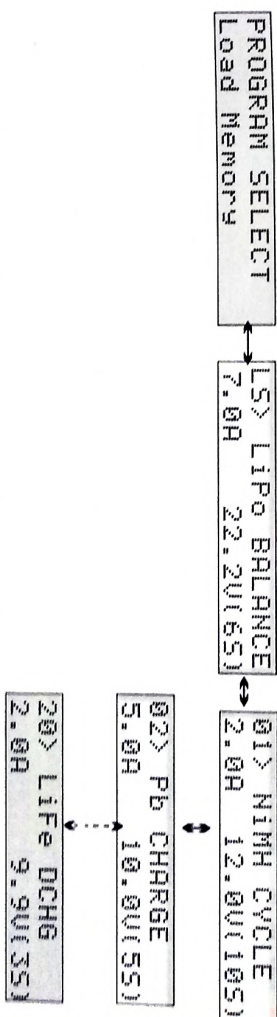
ERROR INFORMATION

INPUT VOLTAGE TOO HIGH	Input voltage is higher than 18V, check the power supply, then restart the charger.
INPUT VOLTAGE TOO LOW	Input voltage is lower than the value of LOW INPUT VOLTAGE CUT-OFF, check the power supply, then restart the charger.
REVERSE POLARITY CHECK	Reverse polarity, check the connection between the charger and the battery, correct the connection, then restart the work.
BATTERY CHECK DISCONNECT	Battery disconnect, check the connection between the charger and the battery, then restart the work.
BATTERY CHECK OVER VOLTAGE	Total voltage of the battery is over the termination voltage control(TVC), check the battery and the TVC setting, then restart.
BATTERY CHECK LOWER VOLTAGE	Total voltage of the battery is lower than the termination voltage control(TVC), check the battery and the TVC setting, then restart.
BATTERY CHECK CELL COUNT ERROR	Cell count detected by the charge is different from the setting, check the battery cell count and reset the cell count of the work.
BATTERY CHECK OVER CELL VOLT	Cell voltage of the battery pack is over the termination voltage control(TVC), check the battery and the TVC setting, then restart.
BATTERY CHECK LOWER CELL VOLT	Cell voltage of the battery pack is lower the termination voltage control(TVC), check the battery and the TVC setting, then restart.
BATTERY CHECK FULL BATTERY	Full battery, no need to charge.
OVER Ext. TEMP CUTOFF	External temperature is higher than the setting value, cutoff.
OVER CAPACITY CUTOFF	Capacity is over than the setting value, cutoff.
SAFETY TIME OUT CUTOFF	Time is up to the setting value of Safety Timer, cutoff.

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PROGRAM of Load Memory

Menu Chart



There are 20 memories record the work of the charger. LS=latest record. Press +/- to shift the memories, press ENTER to revise, then press ENTER for 2 seconds to start working.

SUPPORT and SERVICES

WARRANTY

SHENZHEN HUITUO provide a period of one year product warranty from the date of purchase. The warranty only applies to material or operational defects, which are present at the time of purchase. During that period we will repair or replace free of service, charge for products deemed defective, due to those causes. This warranty is not valid for any damage or subsequent damage arising as a result of misuse, modification or as a result of failure to observe the use guideline in this manual.

Add:3rd Floor, NO.2 Building, Gangzai Industrial Park, Fulong Industrial Area,
Shajing, BaoAn, Shenzhen, China

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INSTRUCTION MANUAL

Professional Balance
Charger/Discharger



B6 mini v2
B64C mini v2

WWW.HT-RC.COM

FC CE CCC

MADE IN CHINA

HT-RC

B6 mini v2
B64C mini v2