INSTRUCTION MANUAL

Professional Balance Charger/Discharger











BGAC mini vz

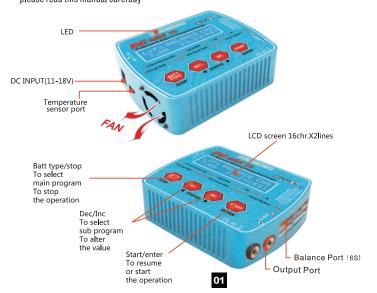
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INTRODUCTION

B6 mini V2

Thank you for purchasing the **QHTRE*** 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/Lilo/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.

Charging connection diagram

B6 mini V2



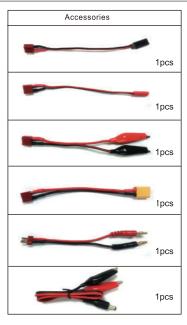
B6AC mini V2



B6 mini V2

SPECIFICATION

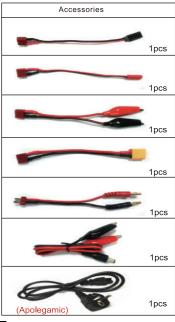
	B6 mini V2
Power Supply	DC 11-18V
Display	1602 LCD Screen
	LiPo,Lilon,LiFe,LiHV 1-6 cells
Supported Battert	NiCd,NiMH 1-15 cells
Supported Battert	Pb(Lead Acid) 2-20V
	Smart Battery I/II/III
Charge Power	80W
Charge Current	0.1-7A
Discharge Power	5W
Discharge Current	0.1 - 2.0A
Balancing current	400mA
USB Output	
Sub Function	Digital Power, Balancer, IR Test
Languages	English
Ext.Temp socket	Futaba 3P socket
Memory	10 memories
Dimensions	L103* W 84* H32mm
Weight	220g
Smart battery	5-25V,0.1-7A



SPECIFICATION

B6AC mini V2

	B6AC mini V2
AC INPUT	100 - 240V
Power Supply	DC 11-18V
Display	1602 LCD Screen
Supported Battert	LiPo,Lilon,LiFe,LiHV 1-6 cells
	NiCd,NiMH 1-15 cells
	Pb(Lead Acid) 2-20V
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Languages	English
Ext.Temp socket	Futaba 3P socket
Memory	10 memories
Dimensions	L103* W 84* H55mm
Weight	435g
Smart battery	5-25V,0.1-7A



CAUTION and NOTES



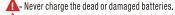
A-This charger is ONLY suitable for charge rechargeable LiPo, LiJo, LiFe,LiHy, NiCd, NiMH, Smart and Pb batteries Do not attempt to charge dry cells. Charge other types of batteries may cause fire or explosion.



A- Set up the Input Power Limit/Low Input VOLT Cut off correctly in the USER SETTING for the DC power supply-



A- Pay attention to the charger during use. Do not leave the charger unattended.



A- Do not attempt to charge a battery pack containing different types of batteries.



Do not use a too short or damaged cables.



 $oldsymbol{\Lambda}$ - Do not use the charger close by a flammable object. Use only in well-ventilated areas.



A - 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.



A-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.



A - Strongly recommend balancing Lithium packs, An unbalanced pack may damage during discharging.



🔼 - General default charging current is 1C. 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	No.o f	Rated	Charger	Battery	No.o f	Rated	Charger
Type	Cells	Voltzge(V)	Current(A)	Type	Cells	Voltzge(V)	Current(A)
	1	3.8	0.1-7.0A		9	10.8	0.1-7.0A
	2	7.6	0.1-7.0A		10	12	0.1-7.0A
	3	11.4	0.1-7.0A		11	13.2	0.1-7.0A
LiHV	4	15.2	0.1-7.0A	NiMH	12	14.4	0.1-7.0A
LINV	5	19.0	0.1-7.0A	/NiCd	13	15.6	0.1-7.0A
	6	22.8	0.1-7.0A	ľ	14	16.8	0.1-7.0A
					15	18	0.1-7.0A
	1	3.7	0.1-7.0A				
	2	7.4	0.1-7.0A				
	3	11.1	0.1-7.0A				
Lipo	4	14.8	0.1-7.0A				
Lipo	5	18.5	0.1-7.0A		1	2	0.1-7.0A
	6	22.2	0.1-7.0A		2	4	0.1-7.0A
					3	6	0.1-7.0A
					4	8	0.1-7.0A
LiIo	1	3.6	0.1-7.0A	Pb	5 6	10	0.1-7.0A
	2	7.2	0.1-7.0A	FD		12	0.1-7.0A
	3	10.8	0.1-7.0A		7	14	0.1-7.0A
	4	14.4	0.1-7.0A		8	16	0.1-7.0A
	5	18	0.1-7.0A		9 10	18 20	0.1-7.0A 0.1-7.0A
	6	21.6	0.1-7.0A		11	22.0	0.1-7.0A
					12	24.0	0.1-7.0A
	1	3.3	0.1-7.0A	Lipo	Voltage Level: 3.7V/cell Max Charge Voltage: 4.2V/		
	2	6.6	0.1-7.0A		Discharge V	oltage Cut off Level	3.0V/cell or Higher
	3	9.9	0.1-7.0A		Voltage Level: 3.6V/cell Max Charge V		arge Voltage: 4 1V/Cell
LiFe	4	13.2	0.1-7.0A	LiIo	LiIO Discharge Voltage Cut off Level: 3.0\		
	5	16.5	0.1-7.0A		Discharge V	oitage Cut off Level	3.0V/cell or Higher
	6	19.8	0.1-7.0A		Voltage Lev	el: 3.3V/cell Max Ch	arge Voltage: 3.8V/Cell
				LiFe		oltage Cut off Level	2.0V/cell or Higher
					Discharge v	onage cat on Level	, r riigitei
	1	1.2	0.1-7.0A		Voltage Level: 3.8V/cell Max Charge Voltage		rge Voltage: 4.35V/Cell
NiMH /NiCd	2	2.4	0.1-7.0A	LiHV	Discharge V	oltage Cut off Level	; 3.2V/cell or Higher
	3	3.6	0.1-7.0A		Voltage Les	rel: 1.2V/cell	
	4	4.8	0.1-7.0A	NiMH		Voltage: 1.6V/Cell	
	5	6	0.1-7.0A	/NiCd	Discharge V	oltage Cut off Level	: 0.80V/cell or Higher
	6	7.2	0.1-7.0A		Voltage Lev	el: 2.0V/cell	
1	7	8.4	0.1-7.0A	Pb		e Voltage:2 45V/Cell	
	8	9.6	0.1-7.0A				: 1.50V/cell or Higher

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/Lilo/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.

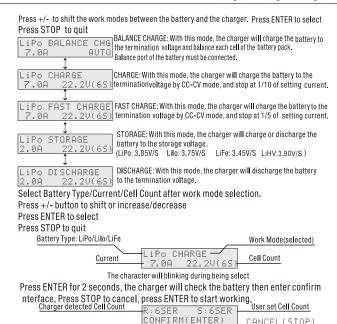
PROGRAM SELECT User Settings Enter this program, you can set the parameter of the charger, some important parameter will affects the work performance of the charger.

PROGRAM SELECT Extra Function

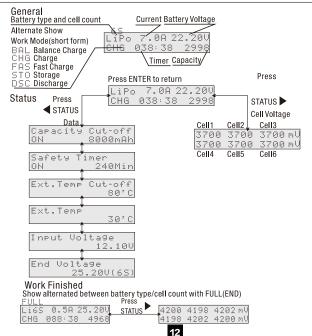
Enter this program, you can generate the extra functions of the charger, such as Meter LiXx Battery Status, Meter Internal Resistance, LiXx Balancer...etc.

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

PROGRAM of LiPo/LiFe/Lilo/LiHV



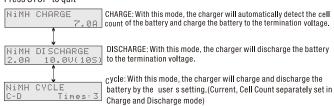
PROGRAM of LiPo/LiFe/Lilo/LiHV



PROGRAM of NiMH/NiCd

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

Press STOP to quit

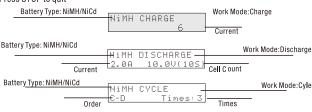


Select Battery Type/Current/Cell Count after work mode selection.

Press +/- button to shift or increase/decrease

Press ENTER to select

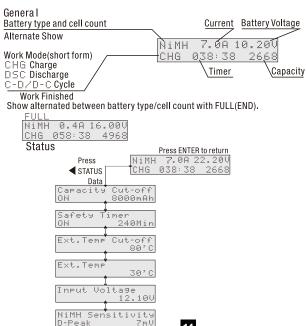
Press STOP to quit



The character will blinking during being select

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

WORKING INTERFACE



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



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



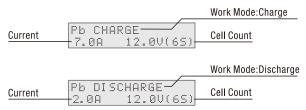
DISCHARGE: With this mode, the charger will discharge the battery to the termination voltage.

Select Current/Cell Count after work mode selection.

Press +/- button to shift or increase/decrease

Press ENTER to select

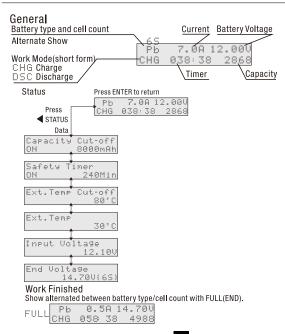
Press STOP to quit



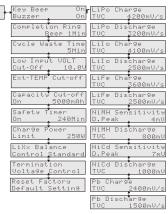
The character will blinking during being select

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

WORKING INTERF ACE



PROGRAM of User Settings



Key Beep Buzzer VOL	On LOW
Completion	Ring 1Min
Cycle Waste	
03010 00000	5Min

Low Input VOLT

User Settings

In this menu, you can turn on/off of the key sound and set the volume of the buzzer. Key Beep default: On Buzzer default: Low In this menu, you can set the completion ring, 1-5 minutes/off/always optional. Default: 1Min

In this menu, you can set the waste time between charge and discharge in NiMH/NiCd cycle mo Range from 1-60Min. Default: 5Min.

In this menu, you can set the cutoff input voltage of the power supply of the charger to protect v power supply. The charger will cutoff working when input voltage lower than the setting value. 10.00 Range from 10.0-18.0V, Default: 10.0V

In this menu you can set the cutoff external temperature to protect your battery. The charger will cutoff working when the external temperature is higher than the setting value

Ext-TEMP Cut-off (a external temperature sensor is needed). On/Off optional, range from 30-90°C, Default: 80°C 80°C In this menu, you can set the cutoff capacity to protect your battery.

Capacity Cut-off The charger will cutoff working when the capacity is more than the setting value. On/Off optional range from 100-60000mAh .Default: 8000mAh

PROGRAM of User Settings



Safety Timer

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 notional 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

Balance control of LiPo/Lilo/LiFe, you can set the balance control to meet your demand.
Standard/Fast/Accurate optional.

Default: Standard *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

LiPo Charge

Outlase Control

A200mU/s

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

Lipo Change Range from 4150-4250 mV/s
TUC 4200 mU/s Default: 4200 mV/s
TUC 110 Dischange Range from 3000-3850 mV/s
TUC 3200 mU/s Default: 3200 mV/s

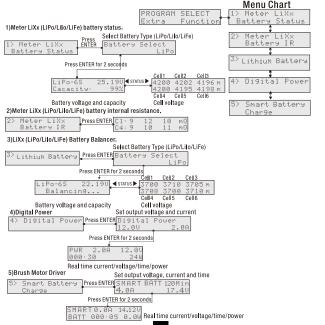
For LiHV (4350Mv/s)

1.For the LiHV Battery, it needs to modify the spec data, and then enter into the LiPo Mode,

2. For the LiHV, or LiPo Battery, it needs to set the spec data, and the svestem can't autom-identify

Range from 3750-4200mV/s Default: 4100mV/s 4100mU/s Range from 3000-3750mV/s LiIo Discharge Default: 3100mV/s 2500mUZ= Range from 3300-3800mV/s LiFe Charge 3600mU/s Default: 3600mV/s LiFe Discharge Range from 2500-3300mV/s 2500 mU Default: 2500mV/s Sensitivity Range from 4-29mV Range from 500 1000mV/s NiMH Discharge 800mU Default: 800mV/s Range from 4-20mV NiCd Sensitivity D. Peak Default: 7mV Range from 500-1000mV/s NiCd Discharge 1000mU Default: 1000mV/s Pb Charge Range from 1500-2500mV/s Default: 2400mV/s Range from 1000-1500mV/s Ph Discharge . 5 U/s Default: 1500mV/s

PROGRAM of Extra Function



ERROR INFORMATION

INPUT VOLTAGE IN	put voltage is higher than 18V, check the power supply, then restart the harger.
INPUT VOLTAGE In TOO LOW ch	put voltage is lower than the value of LOW INPUT VOLTAGE CUT- OFF, leck the power supply, then restart the charger.
REVERSE POLARITY Re	everse polarity, check the connection between the charger and the battery, prect the connection, then restart the work.
DITT LERT OTTEON	attery disconnect, check the connection between the charger and the battery, nen restart the work.
OURS HOLZOCK	otal voltage of the battery is over the termination voltage control(TVC), neck the battery and the TVC setting, then restart.
LOUES HOLEOSE	otal voltage of the battery is lower than the termination voltage control(TVC), neck the battery and the TVC setting, then restart.
	elf count detected by the charge is different from the setting, neck the battery celf count and reset the celf count of the work.
	ell voltage of the battery pack is over the termination voltage control(TVC), heck the battery and the TVC setting, then restart.
LOURD OFFI HOLT	ell voltage of the battery pack is lower the termination voltage control(TVC), heck the battery and the TVC setting, then restart.
BATTERY CHECK FULL BATTERY	ull battery, no need to charge.
OVER Ext.TEMP CUTOFF	xternal temperature is higher than the setting value, cutoff.
OVER CAPACITY CUTOFF	apacity is over than the setting value, cutoff.
SAFETY TIME OUT TI	me is up to the setting value of Safety Timer, cutoff.

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.

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MADE IN CHINA