

INSTRUCTION MANUAL

H150AC/DCDUO

AC/DC INPUT

PROFESSIONAL BALANCE CHARGER/DISCHARGER





F© CE O S X

Made in China

FOREWORD

Thank you for purchasing the **QHTRC*** charger. this system is extremely versatile For the safety and the best use of your system, please read this manual carefully.





SPECIFICATION

	H150AC/DC DUO		
AC INPUT	100-240V		
DC INPUT	11-28V		
Display	1602 LCD Screen		
Batteries	LiPo,Lilon,LiFe,LiHV 1-6 cells x 2		
	NiCd,NiMH 1-15 cells x 2		
	Pb(Lead Acid) 2-20V x 2		
	Smart Battery I/II/III		
Charge Power	150Wx2		
Charge Current	0.1-12Ax2		
Discharge Power	20Wx2		
Discharge Current	0.1-5Ax2		
Balancing current	500mA/cell		
USB Output	_		
Sub Function	Digital Power, Balancer, IR Test		
Languages	English		
Ext.Temp socket	Futaba 3P socket		
Memory	20 memories		
Dimensions	L195*W143*H70mm		
Weight	1072g		



Accessories

CAUTION and NOTES

- This charger is ONLY suitable for charge rechargeable LiPo, Lilo, LiFe, LiHv, NiCd, NiMH, Smart Battery 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 Cutoff 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 long 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.
- A- 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.
- A- 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

TTERIES INF	O and MAX	CHARGE CURREN	T .	
Battery Type	Cells	Voltage(V)	Current(A)	
	1	3.8	0.1-12Ax2	
	2 3 4 5	7.6	0.1-12Ax2 0.1-12Ax2	
	<u> </u>	11.4 15.2	0.1-12AX2 0.1-12AX2	
LiHV	5	19.0	0.1-12Ax2 0.1-12Ax2	
	6	22.8	0.1-12Ax2	
	6	22.0	0.1-12AX2	
	1	3.7	0.1-12Ax2	
	2	7.4	0.1-12Ax2	
Lipo	3	11.1	0.1-12Ax2	
	4	14.8	0.1-12Ax2	
	5	18.5	0.1-12Ax2	
	6	22.2	0.1-12Ax2	
LiIo	1	3.6	0.1-12Ax2	
	2	7.2	0.1-12Ax2 0.1-12Ax2	
	3	10.8	0.1-12Ax2	
	4	14.4	0.1-12Ax2	
	5	18		
	6	21.6	0.1-12Ax2 0.1-12Ax2	
	0	21.0		
			0.1-12Ax2	
	1	3.3	0.1-12Ax2	
	2	6.6	0.1-12Ax2	
	2 3 4 5	9.9	0.1-12Ax2	
LiFe	4	13.2	0.1-12Ax2	
		16.5	0.1-12Ax2	
	6	19.8	0.1-12Ax2	
	1	1.2	0.1-12Ax2	
	2	2.4	0.1-12Ax2	
	1 2 3 4	3.6	0.1-12Ax2	
NiMH	4	4.8	0.1-12Ax2	
/NiCd	5	6	0.1-12Ax2	
/ INICa	6	7.2	0.1-12Ax2	
	7	8.4	0.1-12Ax2	
	8	9.6	0.1-12Ax2	
Battery Type	Cells	Voltage(V)	Charge Current(A)	
	9	10.8	0.1-12Ax2	
NiMH	10	12	0.1-12Ax2	
	11	13.2	0.1-12Ax2	
	12	14.4	0.1-12Ax2	
/NiCd	13	15.6	0.1-12Ax2	
/ I VICG	14	16.8	0.1-12Ax2	
	15	18	0.1-12Ax2	
Pb				
	1	2	0.1-12Ax2	
	2	4	0.1-12Ax2	
	3	6	0.1-12Ax2	
	4	8	0.1-12Ax2	
	5	10	0.1-12Ax2	
	6	12	0.1-12Ax2	
	7	14	0.1-12Ax2	
	8	16	0.1-12Ax2	
	9	18	0.1-12Ax2	
	10	20	0.1-12Ax2	
	11	22.0	0.1-12Ax2	
	12	24.0	0.1-12Ax2	
	Voltage Leve	el: 3.7V/cell Max Cha	ge Voltage:4.2V/Cell	
Lipo	Discharge Voltage Cut off Level: 3.0V/cell or Higher			
	Voltage Level: 3.6V/cell Max Charge Voltage: 4.1V/Cell			
LiIo	Discharge Voltage Cut off Level: 3.0V/cell or Higher			
LiFe	Voltage Level: 3.3V/cell Max Charge Voltage: 3.8V/Cell			
	Discharge Voltage Cut off Level: 2.0V/cell or Higher			
LiHV	Voltage Level: 3.8V/cell Max Charge Voltage: 4.35V/Cell Discharge Voltage Cut off Level: 3.2V/cell or Higher			
NiMH /NiCd	Voltage Level: 1.2V/cell Max Charge Voltage: 1.6V/Cell Discharge Voltage Cut off Level: 0.80V/cell or Higher			
Pb	Voltage Level: 2.0V/cell Max Charge Voltage:2 45V/Cell Discharge Voltage Cut off Level: 1.50V/cell or Higher			

PROGRAM of LiPo/Lilo/LiFe/LiHv Press +/- to shift the work modes between the battery and the charger. Press ENTER to select LiPo BALANCE CHARGE: With this mode, the unarget will charge and 12.0A AUTO

BALANCE CHARGE: With this mode, the unarget will charge and 12.0A Balance port of the battery must be connected. BALANCE CHARGE: With this mode, the charger will charge the battery to CHARGE: With this mode, the charger will charge the battery to the 12.0A 22.2U(65) terminationvoltage by CC-CV mode, and stop at 1/10 of setting current. LiPo FAST CHARGE FAST CHARGE: With this mode, the charger will charge the battery to the 12.0A 22.2U(65) termination voltage by CC-CV mode, and stop at 1/5 of setting current. STORAGE: With this mode, the charger will charge or discharge the LiPo STORAGE L1Po STURAGE 5.0A 22.2U(65) (LiPo: 3.85V/S LiIo: 3.75V/S LiFe: 3.45V/S LiHV:3.90V/S) LiPo DISCHARGE DISCHARGE: With this mode, the charger will discharge the battery 5.0A 22.20(65) 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/Lilo/LiFe Work Mode(selected) LiPo CHARGE 12.0A 22.2V(6S The character will blinking during being select Press ENTER for 2 seconds, the charger will check the battery then enter confirm interface. Press STOP to cancel, press ENTER to start working.

Charger detected Cell Count Process STOP Start Working.

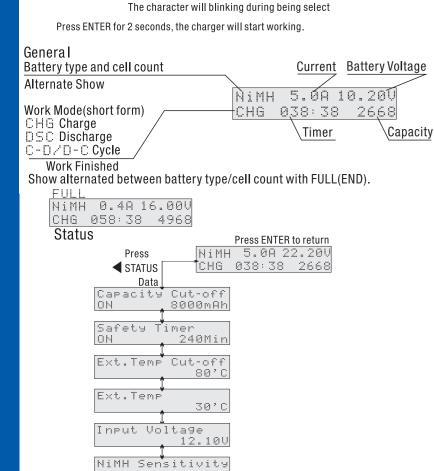
User set Cell Count . R:65ER S:65ER — CONFIRM(ENTER) CANCEL(STOP) General Battery type and cell count **Current Battery Voltage** Alternate Show LîPo 5.0A 22.20V Work Mode(short form) CHG 0,38:38 2998 BAL Balance Charge \Timer Capacity/ HG Charge AS Fast Charge Storage Press Press ENTER to return DSC Discharge LiPo 5.0A 22.20V Status Press СН6 038:38 2998 STATUS > **■** STATUS Cell Voltage Cell1__Cell2 Cell3 Capacity Cut-off 3700 370**0** 3700 mV 8000mAh 3700 3700 3700 mV Cell4 Cell5 Safety Timer 240Min Ext. Temp Cut-off Ext.Temp 30°C Input Voltage 12.10V End Voltage 25.200(65) Work Finished Show alternated between battery type/cell count with FULL(END) FULL Press
Li65 0.5A 25.20U STATUS 4200 4198 4202 mU CHG 088:38 4968 4198 4202 4200 mV PROGRAM of Load Memory Menu Chart



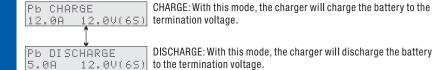
There are 20 memories record the work of the charger. LS=latest record. Press +/- to shift the memories, press ENTER to revise, then press ENTER for 2 seconds to start working.

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PROGRAM of NIMH/NICd Press +/- to shift the work modes between the battery and the charger. Press ENTER to select Press STOP to quit NiMH CHARGE CHARGE: With this mode, the charger will automatically detect the cell 12 . 0A count of the battery and charge the battery to the termination voltage. NiMH DISCHARGE DISCHARGE: With this mode, the charger will discharge the battery 5.0A 10.0U(10S) to the termination voltage. Cycle: With this mode, the charger will charge and discharge the battery by the users setting. (Current, Cell Count separately set in Times: 3 Charge and Discharge mode) 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: NiMH/NiCd Work Mode: Charge NiMH CHARGE 12.0A Current Battery Type: NiMH/NiCd Work Mode: Discharge HiMH DISCHARGE— 5.0A 10.0V(10S) Cell Count Current Battery Type: NiMH/NiCd Work Mode: Cycle NIMH CYCLE C-D Times:3



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

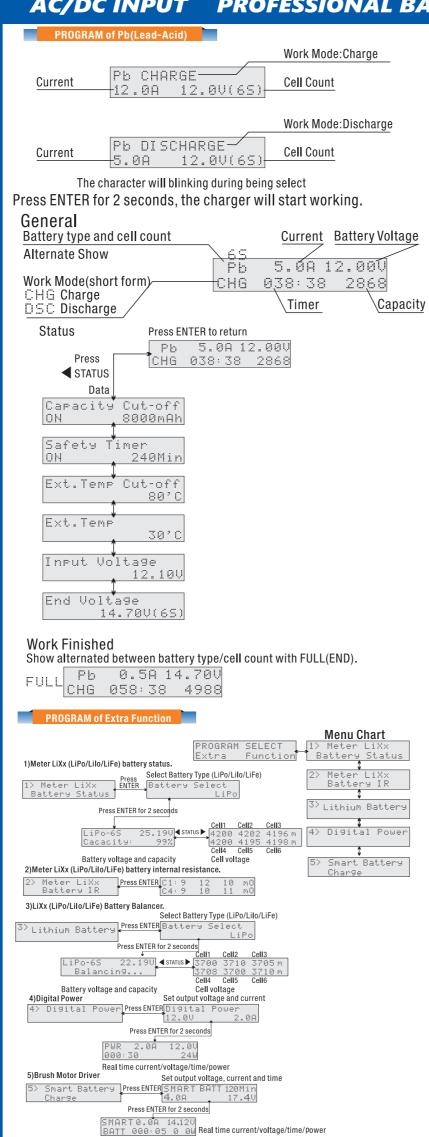


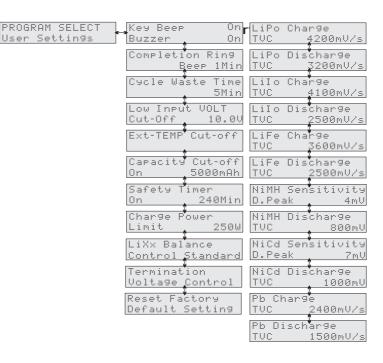
Select Current/Cell Count after work mode selection. Press +/- button to shift or increase/decrease

PROGRAM of Pb(Lead-Acid)

Press ENTER to select Press STOP to quit

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ey Beep On 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 on Petion Ring In this menu, you can set the completion ring, 1-5 minutes/off/always optional. Default: 1Min Cycle Waste Time 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 you power supply. The charger will cutoff working when input voltage lower than the setting value.

Range from 10.0-18.0V, Default: 10.0V

In this menu, you can set the cutoff external temperature to protect your battery.

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

The charger will cutoff working when the capacity is more than the setting value.

On/Off optional range from 100-60000mAh ,Default: 8000mAh

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 10-150 watt, Default: 150 watt

Lixx Balance Balance control of LiPo/Lilo/LiFe, you can set the balance control to meet your demand. Lixx Balance
Control Standard
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

efault Setting Termination
Uoltage Control

LiPo Charge
TUC 4200mU/s
Default: 4200mV/s Termination voltage control per cell of all the batteries this | LiPo Discharge | Range from 3000-3850mV/s | TUC | 3200mU/s | Default: 3200mV/s charger support. You can set the value according to your request.

Reset factory default setting.

TVC 4200mU/s

LiTo Discharge
TUC 2500mU/s
Default: 4100mV/s
Default: 4100mV/s
Default: 3100mV/s LiFe Charge TVC 3600mV/s Default: 3600mV/s LiFe Discharge Range from 2500-3300mV/s
TUC 2500 mU Default: 2500mV/s NiMH Sensitivity Range from 4-20mV NiMH Discharge TUC SØ@mU Default: 800mV/s NiCd Sensitivity Range from 4-20mV D. Peak 7mU Default: 7mV
NiCd Discharge Range from 500-1000mV/s 1000mU Default: 1000mV/s

ERROR INFORMATION

I NPUT VOLTAGE Input voltage is higher than 28V, check the power supply, then restart the TOO HIGH charger.
I NPUT_VOLTAGE Input voltage is lower than the value of LOW INPUT VOLTAGE CUT- OFF, TOO LOW check the power supply, then restart the charger.
REVERSE POLARITY Reverse polarity, check the connection between the charger and the battery, CHECK correct the connection, then restart the work.
BATTERY CHECK Battery disconnect, check the connection between the charger and the battery, DI SCONNECT then restart the work.
BATTERY CHECK Total voltage of the battery is over the termination voltage control(TVC), OVER VOLTAGE check the battery and the TVC setting, then restart.
BATTERY CHECK Total voltage of the battery is lower than the termination voltage control(TVC), LOWER VOLTAGE check the battery and the TVC setting, then restart.
BATTERY CHECK Cell count detected by the charge is different from the setting, CELL COUNT ERROR check the battery cell count and reset the cell count of the work.
BATTERY CHECK Cell voltage of the battery pack is over the termination voltage control(TVC), OVER CELL VOLT check the battery and the TVC setting, then restart.
BATTERY CHECK 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 External temperature is higher than the setting value, cutoff.
OVER CAPACITY CUTOFF Capacity is over than the setting value, cutoff.
SAFETY TIME OUT Time is up to the setting value of Safety Timer, cutoff.

SUPPORT and SERVICES

SOFTWARE FIRMWARE UPGRADE

Please visit our website www.HT-RC.COM, to stay up to date with the latest software and firmware

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.

This charger is designed and approved exclusively for charge the types of battery stated in this manual. SHENZHEN HUITUO do not accept any liability if the charger is used for any purpose other than that stated. We are unable to ensure you follow the instructions come with the charger, and we have no control over the methods you employ for using, operating and maintaining this device. For this reason we are obliged to deny the liability for loss, damage or costs which are incurred due to the incompetent or incorrect use and operation of this product, or which are connected with such operation in any way. Unless otherwise prescribed by law, our obligation to pay compensation, regardless of the legal argument employed, is limited to the invoice value of those products which were immediately and directly involved in the event in which the damage occurred

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