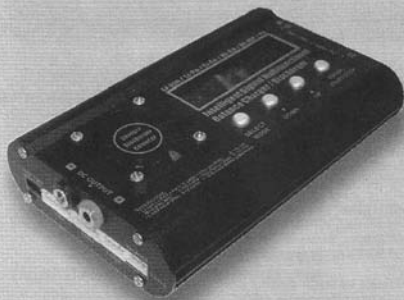


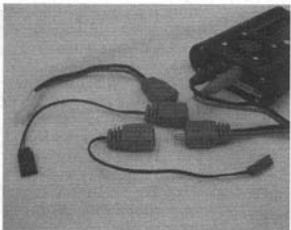
# Intelligent Balance Charger for RC Hobbies Battery

EN Instruction Manual

繁 使用説明書



This is carefully-designed charger manufactured with high technology and professional control software. It enable you maintain your battery with optimal status with high level of safety.





## Charger Profile

- A: 2-Line, 16-Char, Blue Backlight LCD Data Display  
 B: **SELECT MODE** button  
 C: **UP / DOWN** buttons  
 D: **ENTER / START / STOP** button  
 E: Cooler Fan  
 F: 11~18V DC Input Power Cable  
 G: DC Input jack for AC Adapter  
 H: Power Output socket (4mm banana female)  
 I: Balance Socket  
 J: Temperature Sensor

## 充電器操作簡介

- A: 16位雙行藍色背光LCD顯示器  
 B: **SELECT MODE**選擇鍵  
 C: **UP / DOWN**選擇鍵  
 D: **ENTER / START / STOP**選擇鍵  
 E: 散熱風扇  
 F: 11~18V電源輸入線  
 G: 電源適配器插座  
 H: 電源輸出端口(4mm香蕉頭插座)  
 I: 電池平衡線插座  
 J: 溫度感應插座

## How to use

### Memory Store Setting:

- Select Memory Position** - Press **UP / DOWN** buttons to select the memory position (M0~M9) and press **ENTER** to confirm.
- Select Battery Type** - Press **UP / DOWN** buttons to select Battery Type (Ni-cd, Ni-MH, Li/Po, Pb-bat, Li-Fe) and press **ENTER** to confirm.
- Select Charge / Discharge mode** - Press **UP / DOWN** buttons to select Charge / Discharge mode and press **ENTER** to confirm.
- Select Charge / Discharge Voltage** - Press **UP / DOWN** buttons to select the voltage level and press **ENTER** to confirm.
- Select Charge / Discharge Current** - Press **UP / DOWN** buttons to set the current and press **ENTER** to confirm.
- When you are in Charge mode** - The LCD display shows "Balance Cells" when you select the Battery Type Li/Po or Li-Fe. Press **UP / DOWN** buttons to switch "NO" or "OFF" the balance function and press **ENTER** to confirm. (Ni-cd, Ni-MH and Pb-bat type will skip this step)
- When you are in Discharge mode** - The LCD display shows "DisChg Volt Lmt". Press **UP / DOWN** buttons to adjust the cutoff voltage. Press **ENTER** to confirm.
- Save Memory setting** - The LCD display shows "SAVE TO EEPROM?". Press **UP** to select "Y" (confirm) and press **DOWN** to select "N" (reject)

## 如何使用

### 記憶模式設定:

- 選擇記憶位置:** 按**UP / DOWN**鍵選擇記憶位置(M0~M9), 再按**ENTER**鍵確認。
- 選擇電池類型:** 按**UP / DOWN**鍵選擇電池類別(Ni-Cd, Ni-MH, Li/Po, Pb-bat, Li-Fe), 再按**ENTER**鍵確認。
- 選擇充電/放電模式:** 按**UP / DOWN**鍵選擇充電/放電, 再按**ENTER**鍵確認。
- 選擇充電/放電電壓:** 按**UP / DOWN**鍵選擇適當電壓, 再按**ENTER**鍵確認。
- 選擇充電/放電電流:** 按**UP / DOWN**鍵設定電流, 再按**ENTER**鍵確認。
- 在充電模式時:** 當選擇電池類型是Li/Po或Li-Fe時, LCD顯示屏顯示"Balance Cells", 按**UP / DOWN**鍵轉換"ON"或"OFF"平衡功能, 再按**ENTER**鍵確認(Ni-Cd, Ni-MH及Pb-bat除外)。
- 在放電模式時:** LCD顯示屏顯示"DisChg Volt Lmt", 按**UP / DOWN**鍵設定放電電壓, 再按**ENTER**確認。
- 保存記憶設定:** 顯示屏顯示"SAVE TO EEPROM?"按**UP**選擇"Y" (確認) 或按**DOWN**選擇"N" (拒絕)。

## Charge / Discharge Procedures:

- Press **UP / DOWN** buttons to select the memory store (M0~M9).
- Press and hold the **ENTER** button about 3 seconds to start the Charge / Discharge process.
- During the charge or discharge, the status will show on the LCD display battery, like pack voltage, rate, time of charge / discharge, each cell voltage, proceeding percentage, etc...
- When charging or discharging is complete, the charger will issue a voice signal and the battery voltage, capacity and finish time will show on the LCD display.

## 充/放電模式設定:

- 按**UP / DOWN**鍵來選擇記憶組(M0~M9)。
- 長按**ENTER**鍵3秒, 充電器開始進行充電/放電。
- 在充電或放電過程中, LCD顯示屏會顯示充電器的狀態如電壓、電流、充/放電時間、百分比等...
- 完成充/放電後, 充電器會發出警響信號, LCD顯示屏上亦會顯示電池當前電壓、容量及結束時間。

## Setup Menu Instruction

### USER CONFIG →

Press **SELECT MODE** button to enter "USER CONFIG" page. And press **ENTER** to start the user setting.

### Capacity Limited Unlimited

**Set Capacity Limited** - Press **UP / DOWN** buttons to set the cutoff capacity (100mAh~15000mAh & UnLimited). Press **ENTER** to confirm.

### Charge Time Lmt. Unlimited

**Set Charge Time Limited** - Press **UP / DOWN** buttons to set the charging cutoff time (10min~960min & UnLimited). Press **ENTER** to confirm

### Key Press Sound OFF

**Set Key Press Sound** - Press **UP / DOWN** buttons to adjust the key press sound (ON or OFF). Press **ENTER** to confirm.

### Back Light. 70%

**Set LCD Display Back Light Level** - Press **UP / DOWN** buttons to set the lightness of the LCD display backlight level (0~100%). Press **ENTER** to confirm.

### Temperature Lmt. Unlimited

**Set Temperature Cutoff Limited** - Press **UP / DOWN** buttons to set the temperature cutoff level (5°C~99°C & UnLimited). Press **ENTER** to confirm. **\*Remark:** This setting must be used together with the temperature probe.

### Voltage Select. ! Li/Po\_2s=12.3V

Incorrect voltage setting or wrong battery type selection. Check the series cell count or battery type setting

### Please Check Balance Circuit

Balance connector is not connected. Check the connection of balance cable.

### Output Circuit ? Li/Po\_3S=0.00V

Output connector is not connected. Check the connection between charger and battery.

### Connection break Error

The charging current is too high or battery was over discharged.

## 使用者功能設定

按**SELECT MODE**鍵進入"USER CONFIG"頁面, 並按**ENTER**鍵開始進行用戶設定。

**容量限制 -** 按**UP / DOWN**鍵設定容量限制(可選擇100mAh~15000mAh及UnLimited), 按**ENTER**鍵確認。

**設定充電時間 -** 按**UP / DOWN**鍵設定充電時間(可選擇10min~960min及UnLimited), 按**ENTER**鍵確認。

**設定按鍵聲音 -** 按**UP / DOWN**鍵設定是否需要按鍵聲音(ON或OFF), 按**ENTER**鍵確認。

**設定LCD屏幕背光亮度 -** 按**UP / DOWN**鍵設定LCD屏幕背光亮度(0%~100%), 按**ENTER**鍵確認。

**設定充/放電溫度限制 -** 按**UP / DOWN**鍵設定充/放電溫度限制(5°C~99°C及UnLimited), 按**ENTER**鍵確認。  
**\*注意:** 此設定必需與溫度探測線一同使用。

## Warning and Error Message

## 警告及錯誤信息

電壓設定不正確或電池類型選擇錯誤, 檢查電池數量設定或電池類型設定。

平衡線連接有問題, 檢查平衡線連接。

電源輸出線連接有問題, 檢查輸出線電池之間的連接。

充電電流過高或電池被放電至過低。

## Specifications

Display: 2 Line, 16-Char, Blue Backlight LCD Data Display  
Memory Store: 10 Positions User-definable Memory Store  
Applicable Battery:  
- Li-ion / Li-polymer: 1 Cell (3.7V) to 5 Cells (18.5V)  
- Li-Fe: 1 Cell (3.2V) to 6 Cells (19.2V)  
- Ni-Cd / Ni-MH: 1 Cell (1.2V) to 15 Cells (18V)  
- Lead Acid: 1 pack (6V) to 2 pack (12V)  
Input: DC 11-18V (Min. rate 60W)  
Charge Rate: 42W (Max. Current 5A)  
Discharge Rate: 18W (Max. Current 2A)  
Size: 146 x 89 x 30 (mm)  
Weight: 352g

## Features

- ◎ Portable size, packaged in a rugged aluminum case.
- ◎ 2 power input channel, through the AC power adapter or DC power input.
- ◎ Integrate battery balancer, balance individual cells when charging Lithium batteries.
- ◎ Clear and easy-to-read LCD display to show the status and detail information.
- ◎ With built-in safety features, such as reverse polarity protection, input voltage error warning, cell-count mismatch warnings, etc...
- ◎ Effective Cooling System

## Cautions

- ◎ Always be sure that the charger is properly configured for the correct battery type and voltage level.
- ◎ Be sure that the batteries you charge are capable of charge at the rate you select.
- ◎ Never charge batteries unattended.
- ◎ Do not charge near flammable materials.
- ◎ Do not charge batteries inside a model.
- ◎ Insulate all output connectors to eliminate the possibility of short circuit. Damage caused by output short circuit is not covered by warranty.
- ◎ Do not drop or cause other shock to the charger, nor subject it to moisture or water.
- ◎ Do not attempt to charge battery packs made from different types of cells, a mixture of old and new cells, or cells made with chemistry not supported by this charger.
- ◎ Do not attempt to charge when battery pack is hot.
- ◎ Do not open the case of the charger under any circumstances. Doing so will void the warranty.
- ◎ Keep the charger away from children or pets at all times.

## 產品規格

顯示器: 2行16數位LCD藍光顯示螢幕  
記憶儲存: 10組充/放電數據記憶設定  
適用電池:  
- Li-ion / Li-polymer: 1 Cell (3.7V)至5 Cells (18.5V)  
- Li-Fe: 1 Cell (3.2V)至6 Cells (19.2V)  
- Ni-Cd / Ni-MH: 1 Cell (1.2V)至15 Cells (18V)  
- Lead Acid: 1 pack (6V)至2 pack (12V)  
輸入電壓: DC 11-18V (最小功率60W)  
充電功率: 42W (最大電流5A)  
放電功率: 18W (最大電流2A)  
尺寸: 146 x 89 x 30 毫米  
重量: 352克

## 產品特色

- ◎ 鋁合金外殼, 輕便易用。
- ◎ 2組電源輸入; 電源適配器(火牛)或直流電源供應器。
- ◎ 內置電池平衡充電功能, 自動偵察電池組內各電芯電壓, 防止因電壓不平衡而造成危險。
- ◎ 簡潔的LCD螢幕分別顯示充/放電狀態及其他詳細資料。
- ◎ 設有各項安全保護裝置, 如防止電源接反、輸入錯誤警報、電池設定錯誤等功能。
- ◎ 完善而有效率的散熱系統。

## 注意事項

- ◎ 使用本充電器時, 必須先確定充電器的電池種類及電壓設定正確。
- ◎ 確定需要充電或放電的電池能適合使用於本充電器上。
- ◎ 務必在視線範圍內進行充電。
- ◎ 不要在易燃物品旁邊進行充電。
- ◎ 電池必需從模型產品內取出才進行充電。
- ◎ 請把充電器的正、負極輸出插頭隔離好, 防止因正、負極接觸而造成短路; 因短路所做成的損壞將不獲保修。
- ◎ 請勿掉落或撞擊本充電器, 亦避免將充電器放置於潮濕地方或水裡。
- ◎ 所有由不同類型電池所組成的電池組、新/舊電池混合組成的電池組及由本充電器不支援的電池所組成的電池組, 均不要使用於本充電器上。
- ◎ 當電池發熱時, 不要對電池組進行充電。
- ◎ 在任何情況下不要擅自拆裝本充電器, 充電器一經拆開保修一律作廢。
- ◎ 請將本充電器放到幼兒或寵物無法接觸的地方。