

*Charge & Discharge  
NiMh, NiCd & LiPo*

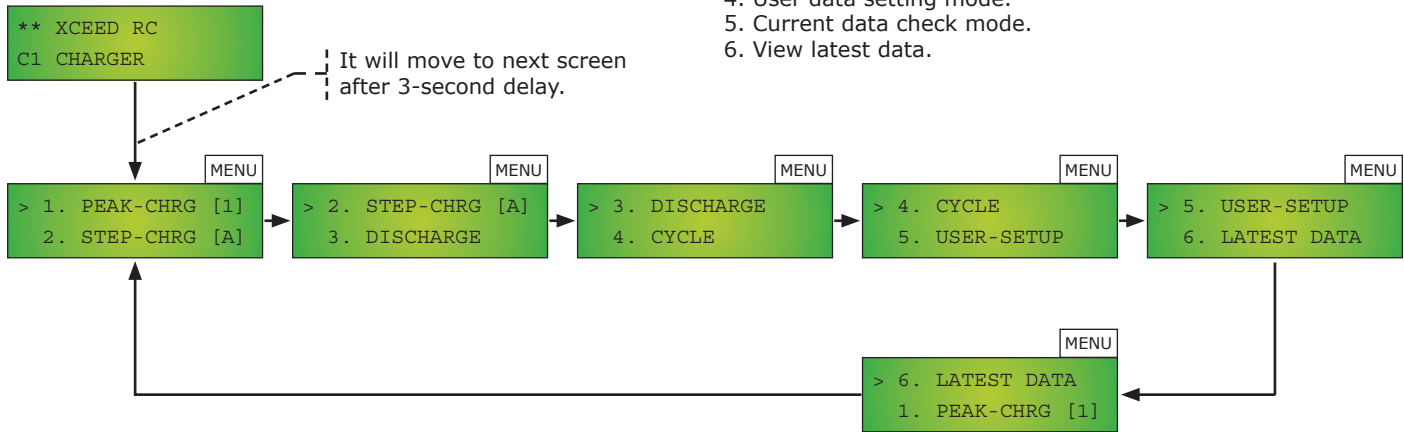


***INSTRUCTIONS***

***C1***

# 1. MAIN DISPLAY

1. Peak charge mode: 1-5 (data saving in 5 different memories.)
2. Step charge mode: A-C (data saving in 3 memories)
3. Discharge mode.
4. User data setting mode.
5. Current data check mode.
6. View latest data.



## MAIN MODE

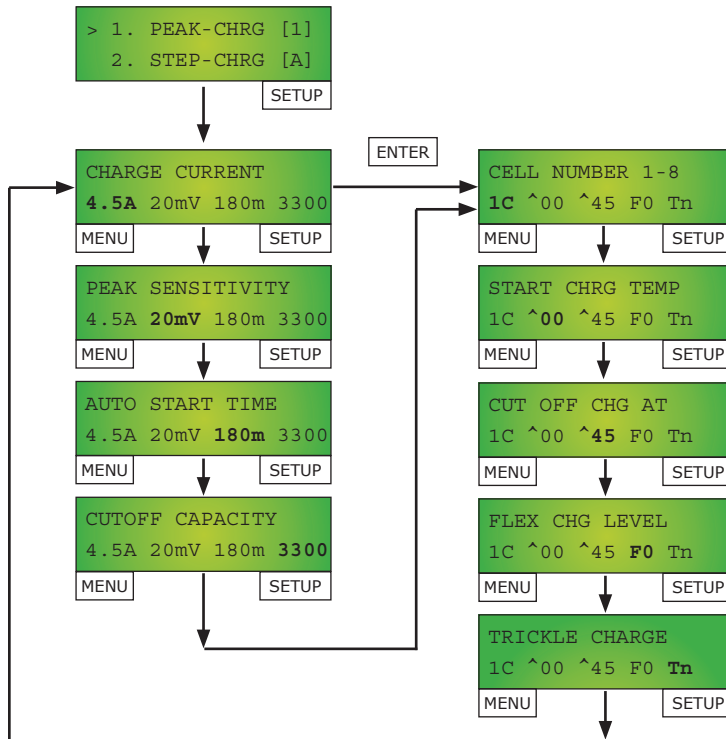
- MENU button has 6 different modes to choose from. As the screen moves the mode will be shown with the > sign.
- Push the SETUP then it will lead to Set up mode.
- Push the UP button, then it will set Peak (1-5), step (A-C) charge memory in mode 1, 2.
- Push ENTER button, it will move to activate mode.





# 2. PEAK CHARGE MODE DISPLAY

## Charge Data Setup 2



- Set up the each data with set up, up button.
- Push the Menu button then move to main screen.

<Setting data range.>

1. Charge current: 0.1-9.0A
2. Delta peak sense: 3-20mV
3. Auto start time :0-180 minutes
4. Charger limiter capacity: 50-5000
5. Battery cell: 1-8
6. Charge start temperature: 15-55 degree
7. Charge limiter temperature: 25-55 degree
8. Flex charge level: 0.9
9. Trickle charge current: Yes/No



# 3. STEP CHARGE MODE DISPLAY

Step A, Step B, Step C

```
> 2. STEP-CHRG [A]
  3. DISCHARGE
```

SETUP

## STEP CHARGE MODE

Set up the data at each step with set up, up button.

Push menu button, then move to main mode.

STEP 1

```
1/3 0000mAh 0.0A
Fn ^NO 6CELL
```

MENU SETUP

### STEP CHRGR 1/3

< Data setting range >

1. Step capacity: 5-5000 (50mAh)
2. Charge current setting 0.1-9.0A (0.1A)
3. Flex Level: 0-9 (0=NO)
4. Charge start temperature 15-25
5. Battery 1-8 cell

STEP 2

```
2/3 0000mAh 0.0A
Fn
```

MENU SETUP

### STEP CHRGR 2/3

< Data setting range >

1. Step capacity
2. Charge current
3. Flex Level

STEP 3

```
3/3 0000mAh 0.0A
Fn ^NO 20mV Rn
```

MENU SETUP

### STEP CHRGR 3/3

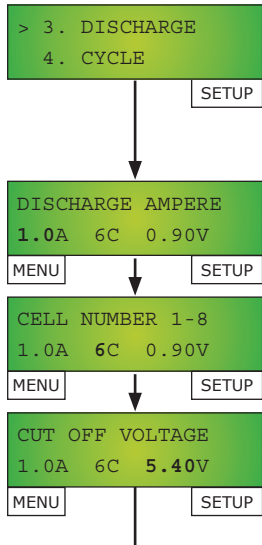
< Data setting range >

1. Step capacity
2. Charge current
3. Flex Level
4. Charge limiter temperature: 25-55
5. Re-peak charge limit: 0-5 (0=NO)



# 4. DISCHARGE

## 5. CYCLE MODE DISPLAY

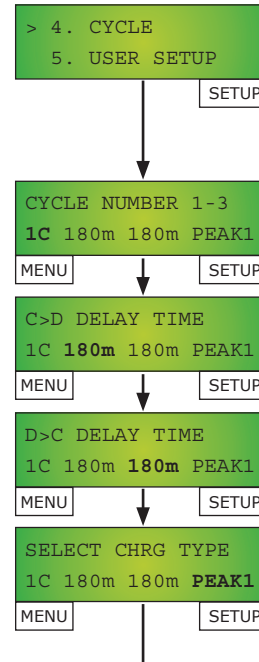


### DISCHARGE MODE

- Push set up button in main discharge mode. then it will move to the section that you can set up discharge.
- You can set up the data by using set up and up button.
- Set up data you need are discharge current, battery number, discharge limiter current.

### < Setting data range >

1. Discharge current: 1-10A
2. Battery cells: 1-8
3. Discharge limit current: 0.05-9.6V



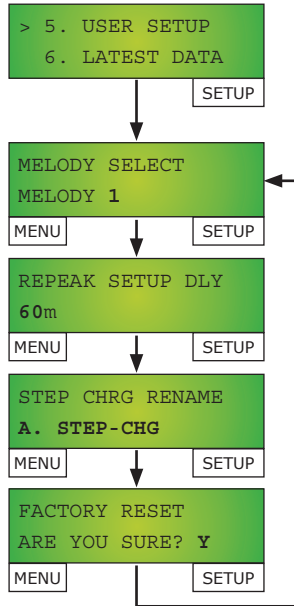
### CYCLE MODE

- Set up the data with setup, up button at cycle data setting screen.
- Set the cycle times, delay after charge, delay after discharge, charge mode.
- Push the menu then move to discharge main menu

### < Data setting range >

1. Possible cycle times: 1-3
2. Delay time after charge: 0-180
3. Delay time after discharge: 0-180
4. Setting charge mode: PEAK 1-5, STEP A-C

# 5. USER SETUP MODE DISPLAY



## USER SETUP MODE

- Push the Menu button at user setup mode in main mode for 2 second then it will move to setting mode.
- Here you can set Melody, re-peak delay, Step CHG name, factory reset.
- Push the menu then move to discharge main menu.

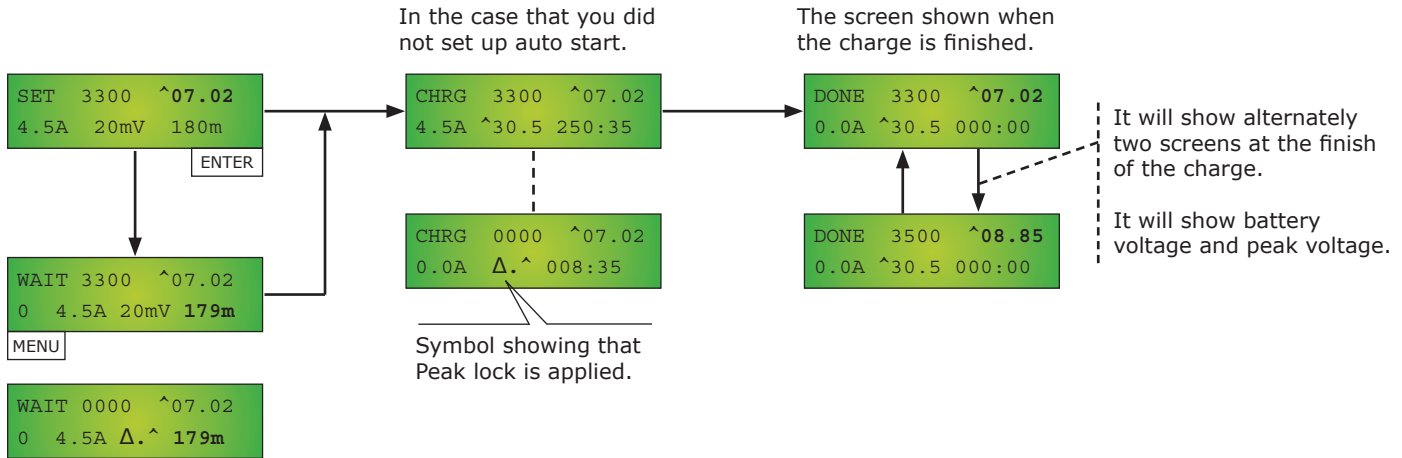
## < Data setting range >

1. MELODY: 1-3
2. REPEAK DELAY TIME: 0 - 99m
3. STEP CHARGE NAME: ADJUSTABLE
4. FACTORY RESET: YES OR NO



# 7. OPERATION MODE DISPLAY

## 1) PEAK CHARGE DISPLAY



### PEAK LOCK FUNCTION

- Push the enter button for 2 second lock function will be operated.
- Once this function is set delta peak will not be functioned for 10 min.
- After 10 min this function will be disappeared charger will be operated in normal mode checking delta peak.
- Current setting is possible during charge; it will show on charge function with blinking battery picture.
- Push enter button then charge will be terminated.

# 7. OPERATION MODE DISPLAY

## (2) STEP CHARGE DISPLAY, DISCHARGE DISPLAY

> 2. STEP-CHRG [A]  
3. DISCHARGE

ENTER

1/3 0050 ^07.02  
4.5A Δ.^ 000:05

MENU

2/3 2000 ^08.02  
4.5A Δ.^ 020:05

MENU

3/3 3000 ^08.92  
4.5A ^45.0 048:05

MENU

DONE 3500 ^07.02  
0.0A ^45.0 000:00

MENU

DONE 3500 P^08.85  
0.0A ^45.0 000:00

> 3. DISCHARGE  
4. CYCLE

ENTER

DCHG 3000 ^07.02  
10.0A ^47.5 045:05

MENU

DONE 3357 ^06.72  
0.0A ^47.5 000:05

MENU

DONE 3357 A^06.85  
0.0A ^47.5 000:05

> 4. CYCLE  
5. USER-SETUP

ENTER

CHRG 0050 ^07.02  
4.5A ^45.0 048:05

MENU

C>D DELAY TIME  
100:35

MENU

DCHG 0050 ^07.02  
10.0A ^47.5 000:05

MENU

D>C DELAY TIME  
100:35

MENU

DONE 3357 ^06.72  
0.0A ^47.5 000:05

MENU

DONE 3357 ^06.85  
0.0A ^47.5 000:05

GO TO LATEST DATA  
MODE



# 8. ERROR DISPLAY MESSAGE

INPUT VOLT ERROR  
[ 12.50V ]

## **Input battery error**

It can cause from below 11V and above 15V.

HOO K UP BATTERY

## **Voltage error**

Error can be caused. In the case that there is no battery or it was connected in opposite direction.

WRONG POLARITY +-

## **Wrong battery direction error**

If battery is connected in different way it will cause error.

TEMP. ERROR  
WRONG CONNECTION

## **Temperature sensor error**

If battery temperature is too cool then it will cause error

WARM UP BATTERY  
-15.5C

## **Battery cooling error**

If battery temperature is too cool then it will cause error (Normally below 0°C)

CTX-C IS TOO HOT  
COOL DOWN

## **Heating error**

If charger temperature is too hot temperature, then the operation will be stopped for a while.

CHECK BATTERY  
CELL NUMBER

## **Battery cell error**

If battery cell numbers are wrong it will bring trouble.



## 9. ICON EXPLANATION



**Current temperature mark**



**Initial charging temperature**



**Charge limiter temperature**



**Key mark**



**Power voltage mark**



**Battery voltage mark 1**



**Battery voltage mark 2**