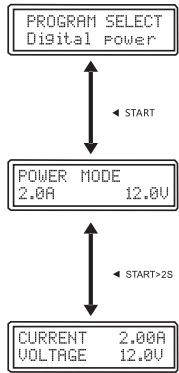




## DIGITAL POWER PROGRAM



In this mode, charger can provide an output power of DC 3.0V-24.0V for the other electronic equipment.

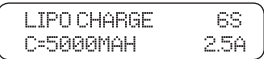
## MEMORY FUNCTION

### Charge settings memory

The charger is equipped with a memory that can store settings for ten different batteries. To modify the memorized settings, use the STOP or – keys to select the save data screen and then press the START key.



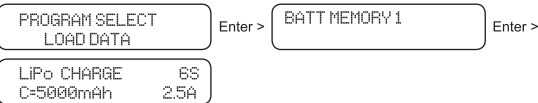
Use the – or + to select the memory slot you wish to modify, then press START. Use the START key to select the different settings and the – or + keys to modify them.



Once you have made all the changes, press and hold the START key for three seconds to save the changes to the actual memory slot.

### Loading the stored settings

To load the memorized setting, use the STOP or – keys to select the load data screen and then press the START key.

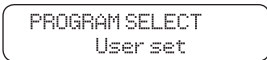


Use the – or + keys to select the memory slot you wish to load, then press and hold START for three seconds. After three seconds the charge screen is displayed automatically.

## USER SETTINGS (CONT'D)

### Modifying the charger's default settings

The charger's default settings can be modified. Only modify these settings if you understand their purpose. Incorrectly adjusting these settings can result in damage to batteries or charger and personal injury. To modify the settings, use the STOP or – keys to select the program screen user set and then press the START key.



From here on you have to use the – and + keys and the START key to select and modify the settings.

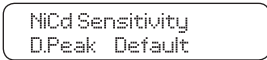
### Precharge Time

When charging over-discharged batteries, the charger makes a slow charge before starting the fast charge. This setting adjusts the duration of the slow charge. Slow charging over-discharged batteries is recommended to avoid further damage to the batteries.



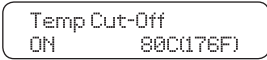
### NiMH/NiCd delta-peak sensitivity

This setting adjusts the automatic delta-peak charge cut-off sensitivity. Use a higher value if the charge tends to stop prematurely and a lower value if your battery is too hot at the end of the charge. Default value is 7mV/cell for NiMH and 12mV/cell for NiCd.



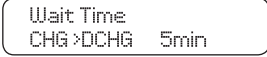
### Temperature monitoring

The connector on the left panel can be used to connect an optional temperature probe for battery temperature monitoring. You can adjust the battery charge cut-off temperature.



### Cycle delay

To prevent battery overheating during cycling, the charger can make a pause between the charge/discharge cycles



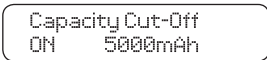
### Safety timer

This function adds an extra layer of security during the charge. The charge will be interrupted once the set time is reached, whether the battery is fully charged or not.



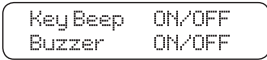
### Capacity cut-off

This is another safety feature that checks the amount of energy (in mAh) that is supplied to the battery during charge. The charge will be interrupted once the preset value is reached, whether the battery is fully charged or not.



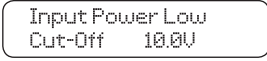
### Audio signals

You can enable and disable the audio signals, which are emitted by the charger.



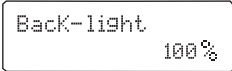
### Power supply control

This function will stop any charging procedure if the power supply voltage drops below a certain threshold.



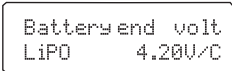
### Adjust screen brightness

Press ENTER and use the + and – buttons to toggle the screen brightness.



### Set the maximum charge voltage for each cell

Input the desired value for each chemistry type and the charger will automatically stop once it has reached the input value.



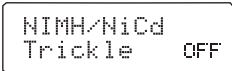
### Restore factory settings

Press and hold the enter button for 3-5 seconds to initiate factory reset.



### NiMH/NiCd Trickle

The trickle function is for full power maintenance on battery packs after they have been fully charged.



## ERROR MESSAGES

This charger is protected against faults and operation errors by the Multi-Protection-System. Faults/Errors are displayed on the LCD screen and they interrupt the active process to protect the unit and the battery.



The output is connected to a battery with incorrect polarity



This will be displayed in case of detecting an interruption of the connection between battery and output or voluntarily disconnecting the charge lead during the operation of charge or discharge on output



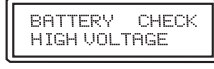
There was a short-circuit at output. Please check the charging leads



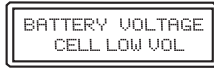
The voltage of input power is below the limit



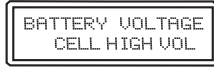
The processor detects the voltage is lower than you set at Lithium program. Please check the cell count of the battery pack



The processor detects the voltage is higher than you set at Lithium program. Please check the cell count of the battery pack



The voltage of one of the cells in the Lithium battery pack is too low. Please check the voltage of the cells one by one



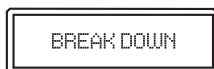
The voltage of one of the cells in the Lithium battery pack is too high. Please check the voltage of the cells one by one



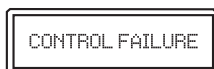
There is a bad connection at the balance connector. Please check connector and cables carefully



The internal temperature of the charger is too high. Wait for the charger to cool down



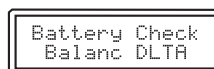
This indicates charger failure. Stop using the charger and contact Common Sense RC



This indicates charger failure. Stop using the charger and contact Common Sense RC



There is a bad connection at the balance or main connector. Please check connectors and cables carefully



The voltage difference between cells is greater than the threshold. A cell in the battery pack may be defective

## WARNINGS AND SAFETY NOTES



**WARNING:** Read the ENTIRE instruction manual to become familiar with the features of the product before beginning use. Failure to operate the product correctly, to exercise caution while using this product, and to comply with the following warnings can result in damage to the product, personal property, or cause serious injury.

**AGE RECOMMENDATION:** *Not for children under 14 years of age. This is not a toy.*

- » Never leave power supply, charger, or battery unattended during use.
- » Never charge batteries overnight.
- » Never attempt to charge dead, damaged, or wet battery packs.
- » Never attempt to charge a battery pack containing cells of different chemistries.
- » Never charge batteries in extremely hot or cold places or in direct sunlight.
- » Never charge a battery of the leads have been pinched or shorted.
- » Never connect the charger if the power cable has been pinched or shorted.
- » Never connect the charger to an automobile battery while the vehicle is running.
- » Never attempt to dismantle the charger or use a damaged charger.
- » Never attach you charger to both an AC and DC power source at the same time.
- » Never connect the input jack (DC input) to AC power.
- » Always charge batteries on a non-flammable surface and inside a fire-resistant container.
- » Always use only rechargeable batteries designed for use with this type of charger.
- » Always inspect the battery before charging.
- » Always keep the battery away from any material that could be affected by heat.
- » Always monitor the charging area and have fire extinguisher available at all times.
- » Always end the charging process if the battery becomes too hot to the touch or begins to swell.
- » Always connect the charge cable to the charger first, then connect the battery next to avoid creating a short circuit between the charge leads. Reverse this sequence when disconnecting.
- » Always connect the positive read leads (+) and negative black leads (–) correctly.
- » Always disconnect the battery after charging and let the charger cool between charges.
- » Always charge in a well-ventilated area.
- » If product malfunctions, discontinue usage and contact Common Sense RC toll-free at 866-405-8811.



Always ensure the battery you are charging meets the specifications of this charger and the charger settings are correct. Not doing so can result in excessive heat and other related product malfunctions, which can lead to user injury or property damage. Please contact Common Sense RC or an authorized retailer with compatibility questions.

## WARRANTY

Below is considered improper use:

- » Failure to follow instructions
- » Improper use of the product (abusive use, out of spec. etc.)
- » Failure to adapt settings for proper function (improper connections, installation, setup, etc.)
- » Overload, overheating (desoldering, melting, etc.)
- » Running in inadequate conditions (damage or rust from rain, humidity, etc.)
- » Improper maintenance (presence of dirt, etc.)
- » Disassembly, modification by the user (modifying original connectors, wires, components, etc.)
- » Mechanical damage due to external causes.

### COMPLIANCE INFORMATION FOR THE EUROPEAN UNION

#### Declaration of Conformity



Product(s): Battery balance charger  
Item Number(s): ACDC-QUAD

The object of the declaration described above is in conformity with the requirements of the specifications listed below, following the provisions of the European EMC Directive 2004/108/EC

EN 55014-1:2006  
EN55014-2:1997+A1:2001  
EN61000-3-2:2006  
EN61000-3-3:2008

