

lick on the support tab for this product.

amage AND little or no possibility of injury.

WARNING: Read the ENTIRE in:

led for use by children witho

itial to read and follow all th

ip or use, in order to operate c

Age Recommendation: Not for c

ith INCompatible comp obby, LLC. This manual



# **GETTING STARTED**

	CAUTION: Before charging, always ensure you have chosen the correct battery chemist type for the battery you are charging.
	CAUTION: Never connect the AC and DC input cords to an active power source at the san

# time. This will void the warranty, cause product damage and possibly injure the user.

When Using an External DC Power Source:

1. Connect the DC power cord to the charger **DC Power Input Port**.

2. Connect the DC alligator clips to the DC power source.

3. When the charger is powered ON, a message will appear on the LCD Screen.

NOTICE: Always connect cable polarities correctly.

**NOTICE:** Always consult 12V battery collateral materials or Horizon Hobby before using with sources other than a standard AC wall outlet.

1. Connect the AC power cord to the charger AC Power Input Port.

2. Connect the AC power cord to the AC power source.

3. When the charger is powered ON, a message will appear on the LCD Screen.

# **CONNECTING BATTERIES TO THE CHARGER:**

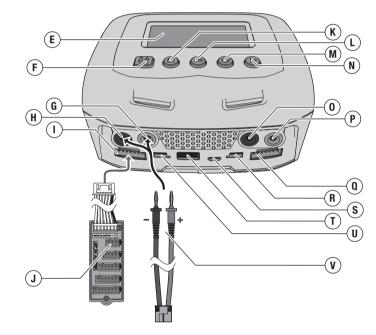
⚠	<b>CAUTION:</b> Always power ON the charger before connecting a battery, or damage to the charger and the battery can result.
1. Con	nect the charger to the power source.

2. Select charge port (A or B).

3. Select the charging settings

- 4. Connect the banana plugs of the battery adapter cable to the Power Output of the selected charge port (A or B), making sure that the positive and negative connectors are not reversed.
- 5. Connect the battery connector to the battery adapter cable
- 6. Start battery charging.

	A. DC Power Cable (optional, not included	) L. INC (increase)
	B. DC Power Input Port	M.DEC (decrease)
	C. AC Power Input Cable	N. Batt / PROG Stop
	D. AC Power Input Port	<b>O.</b> Charge Port B Negative Power Output
	E. LCD Screen	P. Charge Port B Positive Power Output
wn. s shown.	F. Charge Port Selection Button	<b>Q.</b> Charge Port B Balance Board Connector
	G. Charge Port A Positive Power Output	R. Charge Port B Temperature Sensor Port
	H. Charge Port A Negative Power Output	S. PC Link
	I. Charge Port A Balance Connector	T. 5V 2.1A USB Power supply
	J. Balance Board	U. Charge Port A Temperature Sensor Port
	K. ENTER / Start	V. Battery Adapter Cable



NOTICE	CHARGING WARNINGS
All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, LLC. For up-to-date product literature, visit horizonhobby.com and	MARNING: Failure to exercise caution following warnings could result in prod

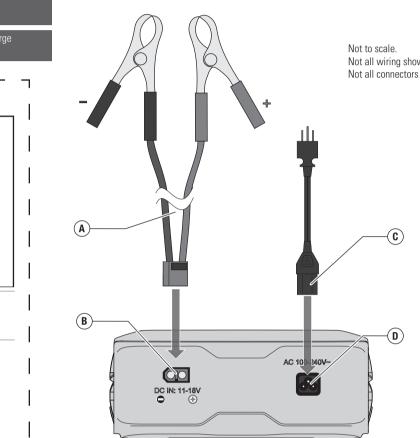
# WARNING: Failure to exercise caution while using this product and comply with the following warnings could result in product malfunction, electrical issues, excessive heat nd ultimately injury and property damage. NEVER LEAVE CHARGING BATTERIES UNATTENDED DURING USE. **NEVER CHARGE BATTERIES OVERNIGHT.**

- Never attempt to charge dead, damaged or wet battery packs.
- Never attempt to charge a battery pack containing different types of batteries.
  Never allow children under 14 years of age to charge battery packs.
  Never charge batteries in extremely hot or cold places or place in direct sunlight.
- **<u>CAUTION</u>**: Procedures, which if not properly followed, create the probability of physical property damage AND possibility of serious injury. Never charge a battery if the cable has been pINChed or shorted.
  Never connect the charger if the power cable has been pINChed or shorted.
  - Never connect the charger to an automobile 12V battery while the vehicle is running.
  - Never attempt to dismantle the charger or use a damaged charger.
    Never attach your charger to both an AC and a DC power source at the same time.
  - Never connect the input jack (DC input) to AC power • Always use only rechargeable batteries designed for use with this type of charger in the correct
  - programming mode.
  - 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 a fire extinguisher available at all times. Always end the charging process if the battery becomes hot to the touch or starts to change form (swell) during the charge process.
  - en connect the battery to avoid short e when disconnecting.
  - black leads (-) correctly
  - he charger cool between charges.
  - bby if the product malfunctions. argeable batteries may cause the
  - lamage to property and shall be easily accessible.

maximum charge rate, charge wit Ig mode. Failure to comply may

**CAUTION:** Always ensure the battery you are charging meets the specifications of th charger and that 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 damag Please contact Horizon Hobby or an authorized retailer with compatibility questions.

<ul> <li>children under 14 years. This is not a toy.</li> <li>nded for use by persons with reduced physical, sensory or mental nd knowledge, unless they have been given supervision or opliance by a person responsible for their safety.</li> <li>Charge only rechargeable batteries. Charging non-rechargeating in injury to persons and/or date the socket-outlet shall be installed near the equipment and warm of the socket-outlet shall be installed near the equipment and warm of the socket outlet shall be installed near the equipment and warm of the socket outlet shall be installed near the equipment and solution.</li> <li>The socket-outlet shall be installed near the equipment and solution of the socket outlet shall be installed near the equipment and solution.</li> <li>WARNING: Never leave charge unattended, exceed non-approved batteries or charge batteries in the ware solution.</li> </ul>	ut direct adult supervision. Do not attempt disassembly, use r augment product in any way without the approval of Horizon instructions for safety, operation and maintenance. It is e instructions and warnings in the manual, prior to assembly, orrectly and avoid damage or serious injury.	<ul> <li>Always connect the charge cable to the charger first, the circuit between the charge leads. Reverse the sequence Always connect the positive red leads (+) and negative Always disconnect the battery after charging, and let the Always charge in a well-ventilated area.</li> </ul>		
<ul> <li>The socket-outlet shall be installed near the equipment a nd knowledge, unless they have been given supervision or opliance by a person responsible for their safety.</li> <li>The socket-outlet shall be installed near the equipment a nd knowledge, unless they have been given supervision or opliance by a person responsible for their safety.</li> <li>WARNING: Never leave charger unattended, exceed non-approved batteries or charge batteries in the waresult in excessive heat, fire and serious injury.</li> </ul>	children under 14 years. This is not a toy.			
opliance by a person responsible for their safety. WARNING: Never leave charger unattended, excee non-approved batteries or charge batteries in the war result in excessive heat, fire and serious injury.	nded for use by persons with reduced physical, sensory or mental	<ul> <li>The socket-outlet shall be installed near the equipment a</li> </ul>		
	opliance by a person responsible for their safety.	non-approved batteries or charge batteries in the w		
	sk of fire or electric shock carefully follow these instructions	result in excessive heat, fire and serious injury.		



Included Items

AC Power Cord

**Optional Items** 

(2) Bare charge leads

Temperature Sensor (DYN5033)

Charge Adapter: Banana to Deans (DYNC0056)

Charge Adapter: Banana to XT60 (DYNC0143)

DC Power Cord: Alligator to XT60 (DYNC1108)

(2) Charge Adapter: Banana to EC3™ Device (DYNC0072)

(2) Balancing Adapter Board: XH (DYN5032)

Dynamite® LiPo Charge Bag: small (DYN1400), large (DYN1405)

Charging Capability | 1–6S Li-Po/Li-Ion/Li-Fe:

Balance Current 200mA max per cell

Operating Temperature 0°C to + 40°C

Battery Capacities | 100–50000 mAh

Input Voltage 100–240V AC (50–60Hz); 11–18V DC

Discharge Current 0.10A–5.0A x 2 (in 0.1A Increments/10W max)

over-temperature

1-15C Ni-Cd/Ni-MH: 2-12V Pb

Charging Mode Ni-Cd/Ni-MH: Peak; Li-Po/Li-Ion/Li-Fe/Pb: CC/CV

Charge Current 0.1A–10A x 2 (in 0.1A Increments/100W max AC, 200W DC)

Protection Short-circuit, over-current, reverse polarity, low input voltage,

use fire, collateral damage and injuries \Lambda CAUTION: Using a charge rate that is not compatible with the battery capacity may result in damage or malfunction of the charger or battery

rograms will damage the battery or the charge

**CHARGE PORT SELECTION** 

The Passport P2 charger has two charge ports. Press the CHA - CHB button to change between the charge ports. The selected charge port is highlighted with a black backgroud.

**MEANING OF SPECIAL LANGUAGE** 

he following terms are used throughout the product literature to indicate various levels of

WARNING: Procedures, which if not properly followed, create the probability of property damage, collateral damage, and serious injury OR create a high probability of superficial injur

NOTICE: Procedures, which if not properly followed, create a possibility of physical property

the product before operating. Failure to operate the product correctly can result in

pnal property and cause serious i

quires some basic mechanical ability. Failure to operate this Product in a safe and respon anner could result in injury or damage to the product or other property. This product is not

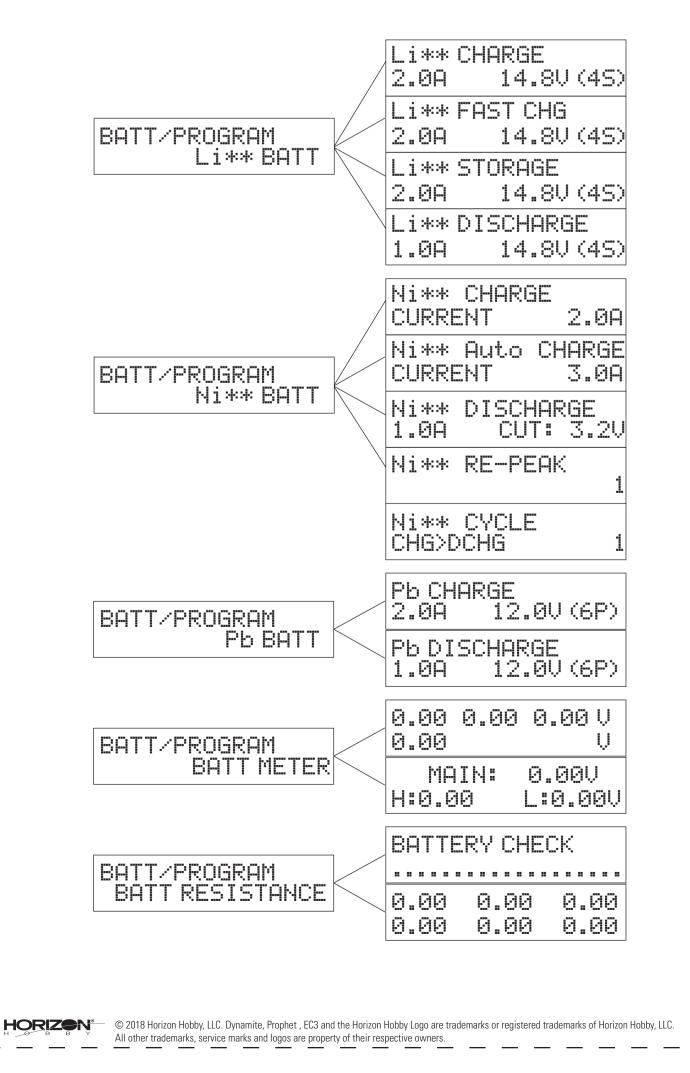
LI-PO/LI-ION/LI-FE/LI-HV ARE SHOWN AS LI\*\* NICAD AND NIMH ARE SHOWN AS NI\*\*

- MENUS DIFFER ONLY IN CELL AND PACK VOLTAGE VALUES
- 1. Press ENTER / Start button to confirm you have read the manual and access the charger functions
- 2. Press the Batt / PROG Stop button to access the root menu. Press the DEC or INC button to scroll through the main menu screens.
- Press ENTER / Start to make a selection
- 4. Press the **DEC** or **INC** button to scroll through the program options.
- 5. Press ENTER / Start to select a program option. 6. Press the DEC or INC Button to change the parameter. Press the ENTER / Start
- Button again to move to the next parameter.
- 7. Once the parameters are at the desired settings, press and hold the ENTER / Start Button for 3 seconds.
- 8. Press the Batt / PROG Stop Button at any time to stop charging.

- **NOTICE:** This appliance is not inter capabilities, or lack of experience a DANGER: To reduce the ris
  - CAUTION: If at any time during the charge process the battery pack becomes hot or begins to puff, disconnect the battery immediately and discontinue the charge process as batteries can CAUTION: The Lithium charge program menus are to be used ONLY for the charging and discharging of Lithium battery packs. Charging other battery types using the Lithium charge

**PROGRAMMING QUICK GUIDE** 

i\*\* CHARGE .0A 14.8V (4S) Li\*\* CHARGE Β .0A 14.8U(4S)



#### **OPERATING YOUR CHARGER**

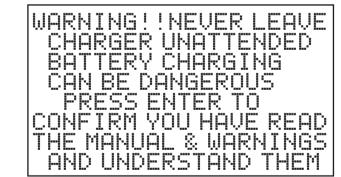
5.

(C)

(D)

#### **POWER UP SCREEN**

When the charger is powered ON, there is a series of self tests and the charger will require the user to verify they have read the manual by pressing the ENTER / Start button. The charger will not proceed with charge functions until this process is completed.



# LI-PO/LI-ION/LI-FE/LI-HV ARE SHOWN AS LI\*\*. MENUS DIFFER ONLY IN CELL AND PACK VOLTAGE VALUES.

#### LI\*\* (LI-PO/LI-FE/LI-ION) LITHIUM CHARGING

- Connect the banana plugs of the battery adapter cable to the charge port. Confirm the positive 13. When discharging is complete, the charger will sound a series of beeps. and negative connectors match, red to red (positive to positive) and black to black (negative to negative).
- 2. Connect the Balance Adapter Board to the Balance Port of the charge port.
- 3. Connect the battery connector to the battery adapter cable.
- 4. Connect the balance connector of the battery to the balance adapter.
- 5. Press the Batt / PROG Stop button to access the root menu. Press the DEC or INC button to scroll through the main menu screens until you reach Program Select=Li-Po/Li-Ion/Li-Fe.

BATT/PROGRAM Li\*\* BATT

#### 6. Press ENTER / Start

- Press the **DEC** or **INC** Button to scroll through the program options (Charge, Balance Charge, Storage, Discharge).
- Press ENTER / Start to select a program option. The Parameter will begin flashing.
- Press the **DEC** or **INC** Button to change the value of the parameter. Press the **ENTER / Start** 9 Button again to move to the next parameter.

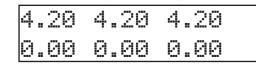
Li\*\* CHARGE 2.08 14.8V(4S)

- 10. Once the parameters are at the desired settings, press and hold the ENTER / Start Button for 9. Press the DEC or INC Button to change the value of the parameter. Press the ENTER / Start 3 seconds. Press ENTER / Start again to confirm and start the charge process.
- 11. The charger will check the battery and charger settings and charging will begin. The charger will beep and display the following screen:
- 12. Press the **DEC** Button to see the rest of the Charging information.
- 13. Press the INC Button to see the voltages for each cell. Press ENTER / Start to return to the charging screen.

#### 14. Press the Batt / PROG Stop Button at any time to stop charging



15. When charging is complete, the charger will sound a series of beeps. 16. Disconnect the battery from the charger when the charge is complete.



#### LI\*\* (LI-PO/LI-FE/LI-ION) LITHIUM DISCHARGING

- Connect the banana plugs of the battery adapter cable to the charge port. Confirm the positive and negative connectors match, red to red (positive to positive) and black to black (negative to negative).
- 2. Connect the Balance Port to the Balance Circuit Adapter Board.
- 3. Connect the battery connector to the battery adapter cable.
- 4. Connect the balance connector of the battery to the Balance Adapter Board.
- 5. Press the **Batt / PROG Stop** button to access the root menu. Press the **DEC** or **INC** button to scroll through the main menu screens until you reach Program Select=Li-Po/Li-Ion/Li-Fe.

DCHG

3.0V

9.0V(3S)

6. Press the ENTER / Start Button.

\_\_\_\_\_\_\_\_

1.0A

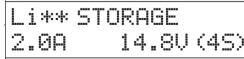
- 7. Press the **DEC** or **INC** Button until Li-Po/Li-Ion/Li-Fe DCHG appears.
- 8. Press the ENTER / Start Button to edit the parameter
- 9. Once the parameters are at the desired settings, press and hold the ENTER / Start Button for 3 seconds.
- 10. The charger will check the battery and charger settings and discharging will begin.
- 11. Press the **DEC** or **INC** Button to see the rest of the Discharging information.
- 12. Press Batt / PROG Stop at any time to stop discharging
- 14. Disconnect the battery from the charger when the discharge is complete.

#### LI\*\* (LI-PO/LI-FE/LI-ION) LITHIUM STORAGE CHARGING

- 1. Connect the banana plugs of the battery adapter cable to the charge port. Confirm the positive and negative connectors match, red to red (positive to positive) and black to black (negative to negative).
- 2. Connect the Balance Adapter Board to the Balance Port of the charge port.
- 3. Connect the battery connector to the battery adapter cable.
- 4. Connect the balance connector of the battery to the balance adapter.

Press the Batt / PROG Stop button to access the root menu. Press the DEC or INC button to scroll through the main menu screens until you reach Program Select=Li-Po/Li-Ion/Li-Fe. 6. Press the ENTER / Start Button.

7. Press the **DEC** or **INC** Button until Li-Po/Li-Ion/Li-Fe STORAGE appears.



8. Press the ENTER / Start Button to edit the parameter. The Parameter will begin flashing.

- Button again to move to the next parameter. 10. Once the parameters are at the desired settings, press and hold the ENTER / Start Button for
- 3 seconds. Press ENTER / Start again to confirm and start the process.
- 11. The charger will check the battery and charger settings and storage charging will begin. 12. Press the **DEC** or **INC** Button to see the rest of the storage charging information.
- 13. Press Batt / PROG Stop at any time to stop charging.
- 14. When the storage process is complete, the charger will sound a series of beeps. 15. Disconnect the battery from the charger when the storage process is complete.

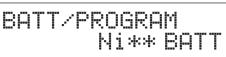
# NI-MH/NI-CD CHARGING IS SHOWN AS NI-\*\* . FOLLOW THESE INSTRUCTIONS FOR BOTH NI-MH AND NI-CD CHARGING.

# WARNING: Never charge lithium batteries in Ni-MH, Ni-CD, or Pb mode.

#### NI\*\* (NI-MH/NI-CD) CHARGING

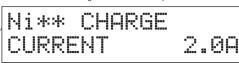
- 1. Connect the banana plugs of the battery adapter cable to the charge port. Confirm the positive and negative connectors match, red to red (positive to positive) and black to black (negative to negative)
- 2. Connect the battery connector to the battery adapter cable.

3. Press the **Batt / PROG Stop** button to access the root menu. Press the **DEC** or **INC** button to scroll through the main menu screens until you reach Program Select=Ni-MH or Ni-Cd.



#### 4. Press the ENTER / Start button.

5. Press the **DEC** or **INC** Button until Ni-MH/Ni-Cd CHARGE appears. 6. Press the ENTER / Start Button to edit the parameter. The Parameter will begin flashing. 7. Press the **DEC** or **INC** Button to change the value of the parameter. Press the **ENTER / Start** 



Button again to move to the next parameter.

8. Once the parameters are at the desired settings, press and hold the ENTER / Start button for 3 seconds.

9. The charger will check the battery and charger settings and charging will begin. 10.Press the **DEC** or **INC** Button to see the rest of the Discharging information.

11.Press Batt / PROG Stop at any time to stop discharging.

12. When charging is complete, the charger will sound a series of beeps.

13.Disconnect the battery from the charger when the charge is complete.

# NI\*\* (NI-MH/NI-CD) DISCHARGING

1. Connect the banana plugs of the battery adapter cable to the charge port. Confirm the positive and negative connectors match, red to red (positive to positive) and black to black (negative to **PB DISCHARGING** negative).

2. Connect the battery connector to the battery adapter cable.

3. Press the Batt / PROG Stop button to access the root menu. Press the DEC or INC button to



scroll through the main menu screens until you reach Program Select=Ni-MH/Ni-Cd. 4 Press the ENTER / Start button

- 5. Press the **DEC** or **INC** Button until Ni-MH/Ni-Cd DISCHARGE appears.
- 6. Press the ENTER / Start Button to edit the parameter. The Parameter will begin flashing.
- 7. Press the **DEC** or **INC** Button to change the value of the parameter. Press the **ENTER / Start**

Button again to move to the next parameter.

9. The charger will check the battery and charger settings and charging will begin.

10. Press the **DEC** or **INC** Button to see the rest of the Discharging information. 11. Press Batt / PROG Stop at any time to stop discharging.

12. When discharging is complete, the charger will sound a series of beeps.

## NI\*\* (NI-MH/NI-CD) CYCLE CHARGING

- 1. Connect the banana plugs of the battery adapter cable to the charge port. Confirm the positive and negative connectors match, red to red (positive to positive) and black to black (negative to negative).
- 2. Connect the battery connector to the battery adapter cable.
- 3. Press the **Batt / PROG Stop** button to access the root menu. Press the **DEC** or **INC** button to scroll through the main menu screens until you reach Program Select=Ni-MH/Ni-Cd. 4. Press the ENTER / Start button

5. Press the DEC or INC button until Ni-MH/Ni-Cd CYCLE appears.



- 6. Press the ENTER / Start button to select the cycle direction. The direction may be changed with the lettering is flashing, press the **DEC** or **INC** button to change between CHG>DCHG or DCHG>CHG.
- 7. Press the ENTER / Start Button to define the number of cycles. When the number flashes h be set with the **DEC** or **INC** button

**CAUTION:** The Pb charge program menus are to be used ONLY for the charging and discharging of Pb battery packs. Charging other battery types using the Pb charge programs will damage the battery or the charger.

#### **PB CHARGING**

1. Connect the banana plugs of the battery adapter cable to the charge port. Confirm the positive and negative connectors match, red to red (positive to positive) and black to black (negative to negative).

- 2. Connect the battery connector to the battery adapter cable.
- 3. Press the Batt / PROG Stop button to access the root menu. Press the DEC or INC button to scroll through the main menu screens until you reach Program Select=Pb BATT.



4. Press the ENTER / Start button.

5. Press the **DEC** or **INC** Button until Pb CHARGE appears.

6. Press the ENTER / Start Button to edit the parameter. The Parameter will begin flashing.



7. Press the DEC or INC Button to change the value of the parameter. Press the ENTER / Start Button again to move to the next parameter.

8. Once the parameters are at the desired settings, press and hold the ENTER / Start button for 3 seconds

9. The charger will check the battery and charger settings and charging will begin. 10. Press the **DEC** or **INC** Button to see the rest of the charging information.

11. Press Batt / PROG Stop at any time to stop discharging.

12. When charging is complete, the charger will sound a series of beeps.

13.Disconnect the battery from the charger when the charge is complete.

TROUBLESHOOTING

During charger operation, circuits monitor battery and charger functions. If the following messages show on the charger's LCD screen, make the recommended responses. If the message continues

The external temperature of the battery is too high (the optional temp probe DYN5033 is required to test external temperature)

1. Connect the banana plugs of the battery adapter cable to the charge port. Confirm the positive and negative connectors match, red to red (positive to positive) and black to black (negative to negative).

2. Connect the battery connector to the battery adapter cable.

3. Press the **Batt / PROG Stop** button to access the root menu. Press the **DEC** or **INC** button to scroll through the main menu screens until you reach Program Select=Pb BATT.

4. Press the ENTER / Start button.



5. Press the **DEC** or **INC** Button until Pb DISCHARGE appears.

- 6. Press the ENTER / Start Button to edit the parameter. The Parameter will begin flashing. 8. Once the parameters are at the desired settings, press and hold the ENTER / Start button for 3 seconds. 7. Press the DEC or INC Button to change the value of the parameter. Press the ENTER / Start Button again to move to the next parameter.
  - 8. Once the parameters are at the desired settings, press and hold the ENTER / Start button for 3 seconds.
  - 9. The charger will check the battery and charger settings and discharging will begin
  - 10. Press the **DEC** or **INC** Button to see the rest of the Discharging information.
  - 11. Press Batt / PROG Stop at any time to stop discharging.

12. When discharging is complete, the charger will sound a series of beeps. 13. Disconnect the battery from the charger when the discharge is complete **SYSTEM SETTINGS** 



Press the **Batt / PROG Stop** button to access the root menu. Press the **DEC** or **INC** button to scroll through the main menu screens until you reach BATT/PROGRAM SYSTEM SETTINGS page.

. Press the ENTER / Start button to enter the system setting menu. 8. Press the **DEC** or **INC** button to scroll through the menu.

- 4. Press the ENTER / Start button to edit the parameter.
- 5. Press the **DEC** or **INC** button to increase or decrease the value.
- 6. Press the ENTER / Start button again to save the selection.
- . Press the Batt / PROG Stop button to return to the main menu.

## **SAFETY TIMER DEFAULT IS ON, 120MIN**

Use the Safety Timer menu to set a time limit for charging a battery. When a charge cycle is started, a clock inside the charger will begin recording the elapsed charge time. If the safety timer function has been turned ON, the charger will stop the charging process once this time **BATTERY MEMORY** limit has been reached to avoid damage caused by overcharging the battery. This time value can be set between 10 and 720 minutes, in 10 minute Increments

> Saftety Timer ΟN 120Min

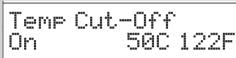
# **CAPACITY CUT-OFF DEFAULT IS ON, 5000MAH**

Use the Capacity Cut-Off menu to set a capacity limit on when the charger stops charging a battery. When a charge cycle starts, the charger records the battery capacity. When the capacity cutoff function is set at ON, the charger will stop charging at the capacity limit to prevent battery damage. Capacity can be adjusted between 10 and 50,000mAh in 100mAh Increments.

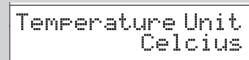


# TEMP. CUT-OFF DEFAULT IS 50C/122F

The charger can be used in conjunction with a battery mounted temperature sensor (sold separately, DYN5033) connected to the Temperature Sensor Port to monitor the temperature of the battery during the charging process. If the battery temperature reaches the cut-off limit, the charger will stop the charging process. Temperature values can be adjusted between 20-80° C (68-176° F).

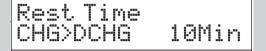


The following screen sets the charger for Celcius or Farenheit.



## **REST TIME FOR CYCLE– DEFAULT IS 10 MINUTES**

Sets the delay during a Charge/Discharge cycle, after the charge completes, before the discharge begins



# **NI-MH SENSITIVITY D. PEAK – DEFAULT**

The D.Peak (Delta Peak) value is adjustable between 3mV/Cell and 15mV/Cell. 8mV/Cell is a good starting point for Ni-MH batteries. If the Delta Peak value is too high, you risk overcharging the battery; if the value is too low, charging will stop before the battery reaches full capaci

> NiMH Sensitivity D.Peak 4mU

## **NI-CD SENSITIVITY D. PEAK – DEFAULT**

The D.Peak (Delta Peak) value is adjustable between 3mV/Cell and 15mV/Cell. 10mV/ Cell is a good starting point for Ni-Cd batteries. If the Delta Peak value is too high, you risk overcharging the battery; if the value is too low, charging will stop before the battery reaches full capacity.

# NiCd Sensitivity D.Peak 4mU

# KEY BEEP (DEFAULT ON) / BUZZER (DEFAULT ON)

Use the Key Beep/Buzzer menu to set the key beep and charger alarm buzzer at ON or OFF as needed. We recommend that you leave the alarm ON to alert you when charging is complete

ΟN

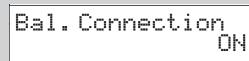
ΟŊ

# **BALANCE CONNECTION (DEFAULT ON)**

default values

LOAD FACTORY SETTINS PRESS ENTER > 2S

When the Balance connection is on the charger will require a balance connection for Li-XX batteries and will confim the batteries are within safe limits or the charger will not start the charge process.



Press the ENTER / Start button for more than 2 seconds to reset all charger values to the

Enter

Load Factory Set

The charger can store up to 10 settings for specific batteries. The following images show

BATT MEMORY

ENTER SET->

programming a Li\*\* battery, options will vary with Ni\*\* and Pb battery types.

1. Press the Batt / PROG Stop button to access the root menu. Press the DEC or INC button to

[ BATT MEMORY X ]

4. Press the ENTER / Start button to go to the first page of settings for the selected battery memory.

6. Press the **DEC** or **INC** button to increase or decrease the value of each page. When the value is

7. Press the ENTER / Start button again to save the selection. When all the values on the page are

solid and do not flash, pressing the increase or decrease buttons will move to the next value in

14.80(4S)

3.0V/CELL

2.0A

1.0A

4.20V

ENTER

BATT VOLTAGE

CHARGE CURRENT

DISCHRG CURRENT

DISCHG VOLTAGE

TVC=YOUR RISK!

8. Complete the menu options for the battery memory, and press the ENTER / Start on the Save

10. To select a battery memory, access the BATT/PROGRAM BATT MEMORY screen, select the

11. Re-load the factory settings in the SYSTEM SETTINGS menu to reset the battery memory slots.

SAVE PROGRAM

memory number desired and press the ENTER / Start button to start the charge.

9. Press the Batt / PROG Stop button to return to the main menu

Program page to save the battery memory. The changes to the battery memory will not be saved if

scroll through the main menu screens until you reach BATT/PROGRAM BATT MEMORY.

3. Press the DEC or INC button to select the battery memory (1-10) you wish to configure.

BATT/PROGRAM

2. Press the ENTER / Start button to enter the Battery Memory settings

flashing it can be adjusted with the increase or decrease buttons.

BATT TYPE

5. Press the ENTER / Start button to edit the parameter.

LiPo

the battery memory.

this option is not selected.

discharge rates will be applied for Ni\*\* cycling

8. Once the parameters are set, press and hold the ENTER / Start button for 3 seconds.

after you respond as recommended, contact your nearest Horizon Hobby customer service center for assistance.

The battery connection has been broken

The battery connection is incorrect

The balance connection is incorrect

The voltage of one cell in the battery pack is too low

The voltage of one cell in the battery pack is too high

The voltage of one cell in the battery pack is invalid

The internal temperature of the charger is too high

The number of cells the charger is set for does not match the battery

The charger has stopped charging because it reached the capacity limit set by the user

Confirm polarity is correct between the charger and the battery.

9. The charger will check the battery and charger settings and charging will begin.

10. Press the **DEC** or **INC** Button to see the rest of the Cycle information.

11. Press Batt / PROG Stop at any time to stop discharging.

REVERSE POLARITY

CONNECTION BREAK

CONNECT ERROR

CHECK MAIN PORT

**BALANCE CONNECT** 

ERROR

CELL ERROR

CELL ERROR

CELL EBBOR

**VOLTAGE-INVALID** 

CELL NUMBER

INT. TEMP. TOO HI

EXT. TEMP. TOO HI

OVER CHARGE

CAPACITY LIMIT

INCORRECT

HIGH VOLTAGE

LOW VOLTAGE

12. When cycling is complete, the charger will sound a series of beeps.

13. Disconnect the battery from the charger when the cycle is complete.

or if there is cause for alarm during charging.

Кеу Веер
Buzzer

#### **LIMITED WARRANTY**

#### LIMITED WARRANTY

the product purchased (the "Product") will be free from defects in materials and workmanship for a period of 1 year from the date of purchase.

What is Not Covered - This warranty is not transferable and does not cover (i) cosmetic damage, (ii) damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or due to improper use, installation, operation or maintenance, (iii) modification of or to any part of the Product, (iv) attempted service by anyone other than a Horizon Hobby authorized service center. (v) Product not purchased from an authorized Horizon dealer. (vi) Product not compliant with applicable technical regulations, or (vii) use that violates any applicable laws, rules, or regulations OTHER THAN THE EXPRESS WARRANTY ABOVE, HORIZON MAKES NO OTHER WARRANTY OR REPRESENTATION, AND HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.

Purchaser's Remedy - Horizon's sole obligation and purchaser's sole and exclusive remedy shall be that Horizon will, at its option, either (i) service, or (ii) replace, any Product determined by Horizon to be defective. Horizon reserves the right to inspect any and all Product(s) involved in a warranty claim. Service or replacement decisions are at the sole discretion of Horizon. Proof of purchase is required for all warranty claims. SERVICE OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY.

Limitation of Liability - HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY, REGARDLESS OF WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY, EVEN IF HORIZON HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Further, in no event shall the liability of Horizon exceed the individual price of the Product on which liability is asserted. As Horizon has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability If you as the purchaser or user are not prepared to accept the liability associated with the use of the Product, purchaser is advised to return the Product immediately in new and unused condition to the place of purchase.

Law - These terms are governed by Illinois law (without regard to conflict of law principals). This warranty gives you specific legal rights, and you may also have other rights which varv from state to state. Horizon reserves the right to change or modify this warranty at any time without notice. WARRANTY SERVICES

Questions, Assistance, and Services - Your local hobby store and/or place of purchase cannot provide warranty support or service. Once assembly, setup or use of the Product has been started, you must contact your local distributor or Horizon directly. This will enable Horizon to better answer your questions and service you in the event that you may need any assistance. For questions or assistance,

please visit our website at horizonhobby.com, submit an inquiry to productsupport@horizonhobby.com or What this Warranty Covers - Horizon Hobby, LLC, (Horizon) warrants to the original purchaser that call the toll-free telephone number referenced in the Warranty and Service Contact Information section to speak with a Product Support representative.

Inspection or Services - If this Product needs to be inspected or serviced and is compliant in the country you live and use the Product in, please use the Horizon Online Service Request submission process found on our website or call Horizon to obtain a Return Merchandise Authorization (RMA) number. Pack the Product securely using a shipping carton. Please note that original boxes may be included, but are not designed to withstand the rigors of shipping without additional protection. Ship via a carrier that provides tracking and insurance for lost or damaged parcels, as Horizon is not responsible for merchandise until it arrives and is accepted at our facility. An Online Service Request is available at http://www.horizonhobby.com/content/service-center\_render-servicecenter. If you do not have internet access, please contact Horizon Product Support to obtain a RMA number along with instructions for submitting your product for service. When calling Horizon, you will be asked to provide your complete name, street address, email address and phone number where you can be reached during business hours. When sending product into Horizon, please include your RMA number, a list of the included items, and a brief summary of the problem. A copy of your original sales receipt must be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton. Provided warranty conditions have been met, your Product will be serviced or replaced free of charge ervice or replacement decisions are at the sole discretion of Horizon

NOTICE: Do not ship LiPo batteries to Horizon. If you have any issue with a LiPo battery, please contact the appropriate Horizon Product Support office. Warranty Requirements - For Warranty consideration, you must include your original sales receipt verifying the proof-ofpurchase date.

#### Non-Warranty Service

Should your service not be covered by warranty, service will be completed and payment will be required without notification or estimate of the expense unless the expense exceeds 50% of the retail purchase cost. By submitting the item for service you are agreeing to payment of the service without notification. Service estimates are available upon request. You must include this request with your item submitted for service. Non-warranty service estimates will be billed a minimum of 1/2 hour of labor. In addition you will be billed for return freight. Horizon accepts money orders and cashier's checks, as well as Visa, MasterCard, American Express, and Discover cards. By submitting any item to Horizon for service, you are agreeing to Horizon's Terms and Conditions found on our website http://www.horizonhobby.com/content/service-center\_render-service-center.

ATTENTION: Horizon service is limited to Product compliant in the country of use and ownership. If received, a non-compliant Product will not be serviced. Further, the sender will be responsible for arranging return shipment of the un-serviced Product, through a carrier of the sender's choice and at the sender's expense. Horizon will hold non-compliant Product for a period of 60 days from notification, after which it will be discarded. 5-14-2015

OVER THE LIMIT	The charger has stopped chargin beause it reached the charge time limit	WARRANTY AND SERVICE CONTACT INFORMATION			
		Country of Purchase	Horizon Hobby	Contact Information	Address
BATTERY WAS FULL	The battery voltage is higher than the maximum voltage set by the user when the charge is initiated		Horizon Service Center (Repairs and Repair Requests)	servicecenter.horizonhobby.com/RequestForm/	1608 Interstate Dr. Champaign, Illinois, 61822 USA
DC IN TOO HIGH	The DC power supply voltage is above the 18 volt limit.	_			
		m. (Product Technical	Horizon Product Support (Product Technical Assistance)	productsupport@horizonhobby.com.	
DC IN TOO LOW	The DC power supply voltage is below the 11 volt minimum.			877-504-0233	
			Sales	websales@horizonhobby.com	
				800-338-4639	
		<b>F</b> 1	Horizon Technischer Service	service@horizonhobby.eu	Hanskampring 9
		EU EU			

#### **FCC INFORMATION**

+49 (0) 4121 2655 100

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna

EU

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Sales: Horizon Hobby GmbH

Consult the dealer or an experienced radio/TV technician for help

D 22885 Barsbüttel, Germany