

#### NOTICE

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 click on the support tab for this product.

### MEANING OF SPECIAL LANGUAGE

The following terms are used throughout the product literature to indicate various levels of potential harm when operating this product:

NOTICE: Procedures, which if not properly followed, create a possibility of physical property damage AND a little or no possibility of injury.

CAUTION: Procedures, which if not properly followed, create the probability of physical property damage AND a possibility of serious injury.

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 injury.

WARNING: Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property and cause serious injury.

This is a sophisticated hobby product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. Do not attempt disassembly, use with incompatible components or augment product in any way without the approval of Horizon Hobby, LLC. This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

#### Age Recommendation: Not for children under 14 years. This is not a toy.

NOTICE: This appliance is not intended for use by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

#### 

- WARNING: Failure to exercise caution while using this product and comply with the following warnings could result in product malfunction, electrical issues, excessive heat, FIRE, and ultimately injury and property damage.
- NEVER LEAVE THE POWER SUPPLY, CHARGER AND 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 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.
- · 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.
- · Always inspect the battery before charging.

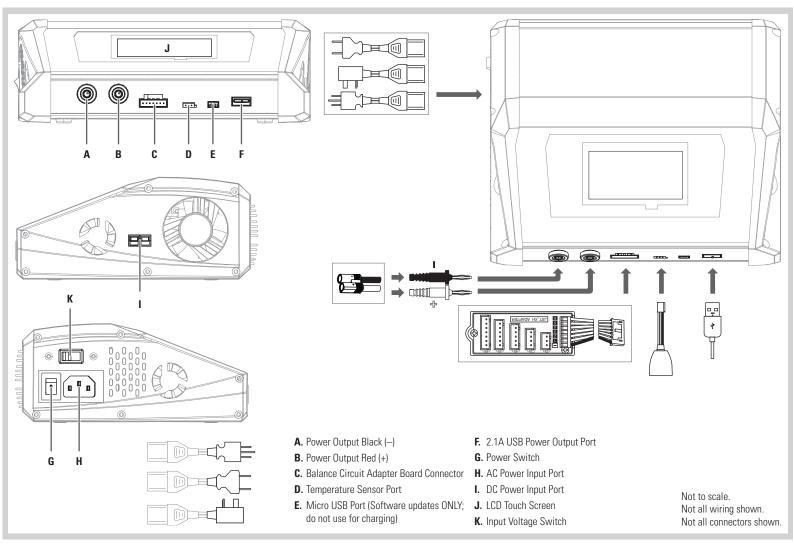
- · Always keep the battery away from any material that could be affected by heat.
- Always monitor the charging area and have a fire extinguisher available at all times.
- Always end the charging process if the battery becomes hot to the touch or starts to change form (swell) during the charge process.
- Always connect the charge cable to the charger first, then connect the battery to avoid short • circuit between the charge leads. Reverse the sequence when disconnecting.
- Always connect the positive red 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.
- Always terminate all processes and contact Horizon Hobby if the product malfunctions.



WARNING: Never leave charger unattended, exceed maximum charge rate, charge with non-approved batteries or charge batteries in the wrong mode. Failure to comply may result in excessive heat, fire and serious injury.

**CAUTION:** Always ensure the battery you are charging meets the specifications of this 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 damage. Please contact Horizon Hobby or an authorized retailer with compatibility

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1	Included Items	SPECIFICATIONS (	
	JST_XH balance adapter (DYN5032)	Input Voltage	100-240V AC (50-60Hz); 11-18V DC
	Banana plug to EC3 <sup>™</sup> battery connector (DYNC0066)	Charging Capability	1–6S Li-Po/Li-Ion/Li-Fe; 1–15C Ni-Cd/Ni-MH; 2–20V Pb
	AC power cord (one region—US, EU, AU or UK)	Battery Capacities	50–10000 mAh
	Banana to Deans insulated charge adapter: male (DYNC0053)	Charge Current	0.1A–10A (in 0.1A increments/220W max)
	Charger lead with receiver connector (DYNC0033)	Discharge Current	0.10A-5.0A (in 0.1A increments/25W max)
Ont		Operating Temperature	$0^{\circ}$ C to + $40^{\circ}$ C
	ional Items	Charging Mode	Ni-Cd/Ni-MH: Peak; Li-Po/Li-Ion/Li-Fe/Pb: CC/CV
	power cord (DYNC1103)	Protection	Short-circuit, over-current, reverse polarity, low input voltage,
Ban	ana to Traxxas® insulated charge adapter: male (DYNC0054)		over-temperature
Tem	nperature Sensor (DYN5033)		

# 🔨 CAUTION: Before charging, always ensure you have chosen the correct battery chemistry type for the battery you are charging.

GETTING STARTED • • • • • • • • • • • • • • •

**CAUTION:** Never connect the AC and DC input cords to an active power source at the same time. This will void the warranty, cause product damage and possibly injure the user.

# When Using an External DC Power Source:

- 1. Ensure the charger is powered OFF.
- 2. Connect the DC power cord to the charger  $\ensuremath{\text{DC}}$   $\ensuremath{\text{Power}}$   $\ensuremath{\text{Input}}$   $\ensuremath{\text{Port}}$  (I).
- 3. Connect the DC alligator clips to the DC power source.
- 4. Power ON the charger with the  $\ensuremath{\text{Power Switch}}$  (G).
- 5. When the charger is powered ON, a message will appear on the  $\mbox{LCD}$  Touch Screen (J).
- **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.

# When Using an External AC Power Source:

- 1. Ensure the charger is powered OFF.
- 2. Connect the AC power cord to the charger AC Power Input Port (H).
- 3. Connect the AC power cord to the AC power source.
- 4. Ensure the Input Voltage Switch (K) is set to the correct input voltage: 110V or 220V.
- 5. Power ON the charger with the **Power Switch (G)**.
- 6. When the charger is powered ON, a message will appear on the **LCD Touch Screen (J)**.
- Connecting the Battery to the Charger:
  - **CAUTION:** Always power ON the charger before connecting a battery, or damage to the charger and the battery can result.
- 1. Connect the charger to the power source.
- 2. Power ON the charger.
- 3. Select the charging settings.
- 4. Connect the battery to the charger.
- 5. Start battery charging.

#### • • • • • PROGRAMMING QUICK GUIDE • • • •

 Press the Left and Right Arrows on the LCD Touch Screen to scroll through the main menu screens.

. . .

2. Press the action at the bottom of the LCD Touch Screen to enter that menu.

. . . . .

- 3. Press a parameter to highlight that parameter.
- 4. Press the Up and Down Arrows to edit the parameter.

- 5. Press **Select** to save the parameter.
- If there is more than one screen of parameters, press the top right corner of the LCD Touch Screen to scroll through the parameter screens.

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7. Press Back to return to the main menu screens.

#### VOLTAGE MUST BE SET TO THE CORRECT VALUE BEFORE THE CHARGER IS POWERED ON.

1 - SELF TEST AND PROGRAM SELECT SCREENS • • • • • • • • •

When the charger is powered ON, there is a series of self tests and the screen will show the charger brand name and model number.



USER\_NAME

**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 cause fire, collateral damage and injuries.

CAUTION: Using a charge rate that is not compatible with the battery capacity may result in damage or malfunction of the charger or battery.

S 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 programs will damage the battery or the charger.

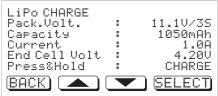
🏼 Only Li-Po is shown in the following three sections. Li-Ion/Li-Fe menus differ ONLY in Cell and Pack Voltage values.

#### 2 - LITHIUM (LI-PO/LI-FE/LI-ION) CHARGING • • • • • • •

- Connect the banana plugs of the battery adapter cable to the **Power Output Black** (-) (A) and **Power Output Red** (+) (B), making sure that the positive and negative connectors are not reversed.
- 2. Connect the JST\_XH balance adapter to the Balance Circuit Adapter Board Connector (C).
- 3. Connect the battery connector to the battery adapter cable.
- 4. Connect the balance connector of the battery to the JST\_XH balance adapter.
- Press the Left and Right Arrows on the LCD Touch Screen to scroll through the main menu screens until you reach Program Select=Li-Po/Li-Ion/Li-Fe.



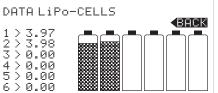
6. Press CHG.



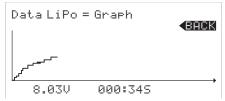
- 7. Press a parameter to highlight that parameter.
- 8. Press the Up and Down Arrows to edit the parameter.
- 9. Press **Select** to save the parameter.
- 10. Once the parameters are at the desired settings, press and hold CHARGE.
- The charger will check the battery and charger settings and charging will begin. The charger will beep and display the following screen:



- 12. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the Charging information.
- 13. Press Unit to see the voltages for each cell. Press Back to return to the charging screen.



14. Press Graph to see the battery voltage graph. Press Back to return to the charging screen.



- 15. Press STOP at any time to stop charging.
- 16. When charging is complete, the charger will sound a series of beeps and display the following screen:

LiPo DONE		010:285 🛡
Capacity	=	169mAh
Current	:	0.0A
Volta9e	=	8.00V
Resistance	:	****mΩ
Peak Temp.	8	No sens
BACK	nit	Graph

# 3 - LITHIUM DISCHARGING • •

- 1. Connect the banana plugs of the battery adapter cable to the Power Output Black (--) and Power Output Red (+), making sure that the positive and negative connectors are not reversed.
- 2. Connect the JST\_XH balance adapter to the Balance Circuit Adapter Board Connector.
- 3. Connect the battery connector to the battery adapter cable.
- 4. Connect the balance connector of the battery to the JST XH balance adapter.
- 5. Press the **Left** and **Right Arrows** on the **LCD Touch Screen** to scroll through the main menu screens until you reach Program Select=Li-Po/Li-Ion/Li-Fe.



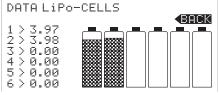
## 6. Press DCHG.

LiPo DISCHARGE		
Pack.Volt.	1	7.4V/2S
Capacity	1	2250mAh
Current	1	0.5A
End Cell Volt	1	3.490
Press&Hold	=	DISCHRG
BACK		SELECT

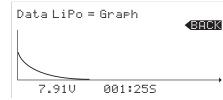
- 7. Press a parameter to highlight that parameter.
- 8. Press the Up and Down Arrows to edit the parameter.
- 9. Press Select to save the parameter.
- 10. Once the parameters are at the desired settings, press and hold DISCHRG
- 11. The charger will check the battery and charger settings and discharging will begin. The charger will beep and display the following screen:

LiPo DCHG		000:30S 🖡
Capacity	:	13mAh
Current	:	1.4A
Volta9e	:	7.91V
Resistance	:	****mΩ
Peak Temp.	1	No sens
STOP	Unit	Graph

- 12. Press the arrow in the top right of the LCD Touch Screen to see the rest of the Discharging information.
- 13. Press Unit to see the voltages for each cell. Press Back to return to the discharging screen.



14. Press Graph to see the battery voltage graph. Press Back to return to the discharging screen. 14. Press Graph to see the battery voltage graph. Press Back to return to the storage charging screen.



- 15. Press STOP at any time to stop discharging.
- 16. When discharging is complete, the charger will sound a series of beeps and display the following screen:

LiPo DONE		010:285♥
Capacity	:	169mAh
Current	:	0.0A
Voltage	:	8.00V
Resistance	:	****mQ
Peak Temp.	=	No sens
BACK	Unit	Graph

17. Disconnect the battery from the charger.

# 4 - LITHIUM STORAGE CHARGING • •

- 1. Connect the banana plugs of the battery adapter cable to the Power Output Black (-) and Power Output Red (+), making sure that the positive and negative connectors are not reversed.
- 2. Connect the JST\_XH balance adapter to the Balance Circuit Adapter Board Connector.
- 3. Connect the battery connector to the battery adapter cable.
- 4. Connect the balance connector of the battery to the JST\_XH balance adapter.
- 5. Press the Left and Right Arrows on the LCD Touch Screen to scroll through the main menu screens until you reach Program Select=Li-Po/Li-Ion/Li-Fe.



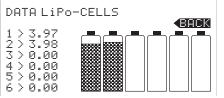
6. Press STOR.

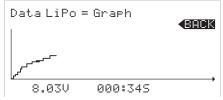
LiPo STORAGE		
Pack.Volt.	:	3.70/15
Capacity	:	50mAh
Current	:	0.1A
End Cell Volt	:	3.70V
Press&Hold	:	STORE
BACK		SELECT

- 7. Press a parameter to highlight that parameter.
- 8. Press the Up and Down Arrows to edit the parameter.
- 9. Press Select to save the parameter.
- 10. Once the parameters are at the desired settings, press and hold STORE.
- 11. The charger will check the battery and charger settings and storage charging will begin. The charger will beep and display the following screen:

LiPo STORE		000:115♥
Capacity	8	4mAh
Current	=	1.8A
Volta9e	8	7.87V
Resistance	=	****mΩ
Peak Temp.	=	No sens
STOP	Unit	Graph

- 12. Press the arrow in the top right of the LCD Touch Screen to see the rest of the storage Charging information.
- 13. Press Unit to see the voltages for each cell. Press Back to return to the storage charging screen.





- 15. Press STOP at any time to stop charging.
- 16. When charging is complete, the charger will sound a series of beeps and display the following screen:

LiPo DONE		010:285♥
Capacity	8	169mAh
Current	:	0.0A
Volta9e	8	8.00V
Resistance	:	****mΩ
Peak Temp.	=	No sens
BACK	nit	Graph

#### Only Ni-MH is shown in the following three sections.

#### 5 - NICKEL (NI-MH/NI-CD) CHARGING

- 1. Connect the banana plugs of the battery adapter cable to the Power Output Black (-) and Power Output Red (+), making sure that the positive and negative connectors are not reversed.
- 2. Connect the battery connector to the battery adapter cable.
- 3. Press the Left and Right Arrows on the LCD Touch Screen to scroll through the main menu screens until you reach Program Select=Ni-MH/Ni-Cd.



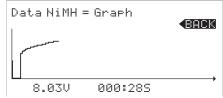
- 5. Press a parameter to highlight that parameter.
- 6. Press the Up and Down Arrows to edit the parameter.
- 7. Press Select to save the parameter.

4. Press CHG

- 8. Once the parameters are at the desired settings, press and hold CHARGE
- 9. The charger will check the battery and charger settings and charging will begin. The charger will beep and display the following screen:

NiMH CHG		000:095 🛡
Capacity	=	2mAh
Current	=	1.8A
Voltage	=	7.98V
Resistance	=	****mΩ
Peak Temp.	=	No sens
STOP		Graph

- 10. Press the arrow in the top right of the LCD Touch Screen to see the rest of the Charging information
- 11. Press Graph to see the battery voltage graph. Press Back to return to the charging screen.



- 12. Press STOP at any time to stop charging.
- 13. When charging is complete, the charger will sound a series of beeps and display the following 13. When discharging is complete, the charger will sound a series of beeps and display the screen.

NiMH DONE		026:015♥
Capacity	:	671mAh
Current	:	0.0A
Volta9e	:	9.25V
Resistance	:	14mΩ
Peak Temp.	:	No sens
BACK		Graph

14. Disconnect the battery from the charger.

- 6 NICKEL DISCHARGING •
- 1. Connect the banana plugs of the battery adapter cable to the Power Output Black (-) and Power Output Red (+), making sure that the positive and negative connectors are not reversed.
- 2. Connect the battery connector to the battery adapter cable.
- 3. Press the Left and Right Arrows on the LCD Touch Screen to scroll through the main menu screens until you reach Program Select=Ni-MH/Ni-Cd.



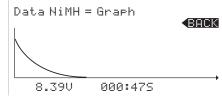
- 5. Press a parameter to highlight that parameter.
- 6. Press the Up and Down Arrows to edit the parameter.
- 7. Press Select to save the parameter.

4. Press DCHG.

- 8. Once the parameters are at the desired settings, press and hold DISCHRG
- 9. The charger will check the battery and charger settings and discharging will begin. The charger will beep and display the following screen:

NiMH DCHG		000:345
Capacity	1	16mAh
Current	:	1.8A
Voltage	:	8.43V
Resistance	:	****mΩ
Peak Temp.	=	No sens
STOP		Graph

- 10. Press the arrow in the top right of the LCD Touch Screen to see the rest of the Discharging information
- 11. Press Graph to see the battery voltage graph. Press Back to return to the discharging screen.



- 12. Press STOP at any time to stop discharging.
- following screen:

	026:015 🖡
:	671mAh
:	0.0A
:	9.25V
:	14mΩ
=	No sens
	Graph

## 7 - NICKEL CYCLE CHARGING • •

- Connect the banana plugs of the battery adapter cable to the Power Output Black (-) and Power Output Red (+), making sure that the positive and negative connectors are not reversed.
- 2. Connect the battery connector to the battery adapter cable.
- Press the Left and Right Arrows on the LCD Touch Screen to scroll through the main menu screens until you reach Program Select=Ni-MH/Ni-Cd.



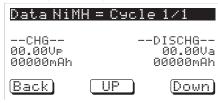
4. Press CYCLE.

NiMH CYCLE		[1/2]
Capacity	:	50mAh
CHG Curr.	:	0.1A
DCHG Curr.	:	0.1A
DCHG End Volt	:	0.10V
Press&Hold	:	CYCLE
BACK		SELECT

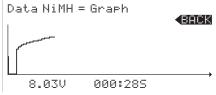
- 5. Press a parameter to highlight that parameter.
- 6. Press the Up and Down Arrows to edit the parameter.
- 7. Press Select to save the parameter.
- 8. Press the top right of the LCD Touch Screen to get to the next set of parameters.
- 9. Once the parameters are at the desired settings, press and hold CYCLE.
- 10. The charger will check the battery and charger settings and cycle charging will begin. The charger will beep and display the following screen:

NiMH CYCLE		001:565 🖡
Capacity	8	47mAh
Current	8	0.0A
Volta9e	8	8.00V
Resistance	8	****mΩ
Peak Temp.		No sens
STOP CY	'CLE	Graph

- 11. Press the arrow in the top right of the LCD Touch Screen to see the rest of the Cycle information.
- 12. Press CYCLE to see the voltage and amperage applied to each cycle.



13. Press Graph to see the battery voltage graph. Press Back to return to the charging screen.



- 14. Press **STOP** at any time to stop charging.
- 15. When cycle charging is complete, the charger will sound a series of beeps and display the following screen:

026:015♥
671mAh
0.0A
9.25V
14mΩ
No sens
Graph

16. Disconnect the battery from the charger.

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.

#### 8 - PB CHARGING • • • • • • • • • • • • • •

- 1. Connect the banana plugs of the battery adapter cable to the Power Output Black (-) and
- Power Output Red (+), making sure that the positive and negative connectors are not reversed.
- $\label{eq:connector} \text{ Connect the battery connector to the battery adapter cable}.$
- Press the Left and Right Arrows on the LCD Touch Screen to scroll through the main menu screens until you reach Program Select=Pb.



4. Press CHG.

Pb CHARGE		
Pack. Volt.	1	2V/1P
Capacity	:	50mAh
Current	:	0.1A
Press&Hold	:	CHARGE
BACK		SELECT

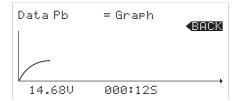
- 5. Press a parameter to highlight that parameter.
- 6. Press the **Up** and **Down Arrows** to edit the parameter.
- 7. Press Select to save the parameter.
- 8. Once the parameters are at the desired settings, press and hold CHARGE.
- 9. The charger will check the battery and charger settings and display the following screen:

Pb Char9e	Confir	۰M
-Connect- Input••• BATT.•••	ОК ОК	-Check- Set: 6P Read: 5P
Back		START

10. Press START. The charger will beep and display the following screen:

Pb CHG		000:165
Capacity	:	8mAh
Current	:	1.7A
Voltage	:	14.69V
Resistance	:	****mΩ
Peak Temp.	=	No sens
STOP		Graph

- 11. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the charging information.
- 12. Press Graph to see the battery voltage graph. Press Back to return to the charging screen.

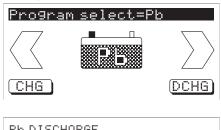


- 13. Press **STOP** at any time to stop charging.
- 14. When charging is complete, the charger will sound a series of beeps and display the following screen:

Pb DONE		000:195 -
Capacity	8	8mAh
Current	:	1.7A
Voltage	8	11.60V
Resistance	:	****mΩ
Peak Temp.	8	No sens
BACK		Graph

# 9 - PB DISCHARGING • •

- 1. Connect the banana plugs of the battery adapter cable to the Power Output Black (-) and Power Output Red (+), making sure that the positive and negative connectors are not reversed
- 2. Connect the battery connector to the battery adapter cable.
- 3. Press the Left and Right Arrows on the LCD Touch Screen to scroll through the main menu screens until you reach Program Select=Pb.

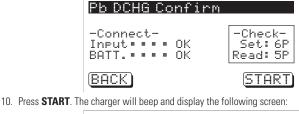




- 5. Press a parameter to highlight that parameter.
- 6. Press the Up and Down Arrows to edit the parameter.
- 7. Press Select to save the parameter.

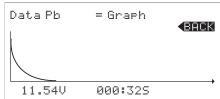
4. Press DCHG.

- 8. Once the parameters are at the desired settings, press and hold **DISCHRG**.
- 9. The charger will check the battery and charger settings and display the following screen:



Pb DCHG		000:195♥
Capacity	:	8mAh
Current	:	1.78
Voltage	:	11.60V
Resistance	:	****mΩ
Peak Temp.	1	No sens
STOP		Graph

- 11. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the discharging information.
- 12. Press Graph to see the battery voltage graph. Press Back to return to the Discharging screen.



- 13. Press **STOP** at any time to stop discharging.
- 14. When discharging is complete, the charger will sound a series of beeps and display the following screen:

Ph DONE		000:195
Capacity	:	8mAh
Current	:	1.79
Voltage	:	11.600
Resistance		****mΩ
Peak Temp.	:	No sens
ВАСК		Graph

15. Disconnect the battery from the charger.

#### 10 - SETUP •

1. Press the Left and Right Arrows on the LCD Touch Screen to scroll through the main menu screens until you reach Program Select=Setup.



- 3. Press a parameter to highlight that parameter.
- 4. Press the Up and Down Arrows to edit the parameter.
- 5. Press Select to save the parameter.
- 6. Press the top right of the LCD Touch Screen to get to the next set of parameters.

Parameters	
Temperature	°C/°F
Temperature Cutoff	68–176°F (20–80°C)
Input Power Low Voltage Cutoff	10.0V-15.0V
Safety Timer	1–720 minutes
Balance Voltage	0.01V-0.03V
Back Light	OFF-100%
Melody	1–5
Button Sound	ON/OFF
Buzzer Sound	ON/OFF
Buzzer Volume	0–100%
Username	Enter your name here
Version	
Factory Reset	Press and hold FCTY RST to return the charger to default factory settings.

#### 1) - VIEW • • • • • • • • • • • • • •

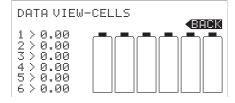
1. Press the Left and Right Arrows on the LCD Touch Screen to scroll through the main menu screens until you reach Program Select=View.



2. Press VIEW. The screen will display the current charger status.

DATA VIEW		
Input Volt	8	15.30V
Output Volt	:	0.02V
Int Temp.	8	29°C
Ext Temp.	=	No sens
Resistance	8	****mΩ
BACK		CELLS

3. Press CELLS to view the connected lithium battery's individual cell voltage.



#### 12 - BALANCE • • • • • • • • • • • • • • • •

 Press the Left and Right Arrows on the LCD Touch Screen to scroll through the main menu screens until you reach Program Select=View.



- Press BALANCE.
  Press the type of battery you want to balance: Li-Po/Li-Ion/Li-Fe.
- 4. Press **START**. The charger will begin balancing the cells.

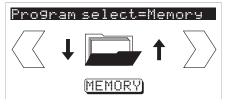


- 5. Press STOP at any time to stop balancing.
- 6. When balancing is complete, the charger will beep and display the following screen:



# 13 - MEMORY • • • • • • • • • • • • • •

- Press the Left and Right Arrows on the LCD Touch Screen to scroll through the main menu screens until you reach the battery program you would like to save: Program Select=Li-Po/Li-Fe/ Li-Ion/Ni-MH/Ni-Cd/Pb.
- 2. Press the action at the bottom of the LCD Touch Screen to enter that menu.
- 3. Press a parameter to highlight that parameter.
- 4. Press the Up and Down Arrows to edit the parameter.
- 5. Press **Select** to save the parameter.
- If there is more than one screen of parameters, press the top right corner of the LCD Touch Screen to scroll through the parameter screens.
- Once the parameters are at the desired settings, press **Back** to return to the main menu screens.
- Press the Left and Right arrows on the LCD Touch Screen to scroll through the main menu screens until you reach Program Select=Memory.



#### 9. Press MEMORY.

10. Choose an empty memory profile and press it.

USER SETUP	[1/4]♥
M01 NULL M02 NULL	
MØ3 NUEE	
M04 NULL M05 NULL	
BACK) [DEL] [LOAD]	COLLE

- 11. Press SAVE. The charging parameters you just entered will be saved in that memory profile.
- 12. To use a memory profile, press it, then press LOAD.
- 13. To delete a memory profile, press it, then hold **DEL**.

14. Press the top right of the LCD Touch Screen to scroll through all 20 memory profiles.

### 14 - USB DEVICE CHARGING • •

The charger has the capability to charge any USB-compatible device with the **2.1A USB Power Output Port (F)**. To use the charging function, simply connect a compatible charging device or cord into the charge port while the charger is powered ON. The charger provides up to 2.1A current at 5V DC.

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

REVERSE POLARITY	Make sure each connection polarity is correct between the power source and the charger, then between the charger and the battery.	
PROCESS INTERRUPTED	Make sure the power connections are correct for charging.	
OUTPUT SHORT CIRCUIT	Make sure there are no short circuits between the poles of the battery or the battery and the charger. Replace damaged wires.	
INPUT VOLTAGE ERROR	Input voltage to the charger fell below the default or adjusted input voltage setting. Make sure the power source for the charger provides correct input voltage.	
CHARGER FAILURE	Charger electronics require repair.	
BATTERY LOW VOLTAGE	Battery voltage is lower than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.	
BATTERY HIGH VOLTAGE	Battery voltage is higher than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.	
CELL LOW VOLTAGE	Cell voltage is lower than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.	
CELL HIGH VOLTAGE	Cell voltage is higher than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.	
CELL CONNECT ERROR	Make sure the balance connection is correct for charging.	
CHARGER OVERHEATING	Charger temperature is too high. Power OFF the charger and let it cool.	
OVER POWER	Input voltage to the charger exceeded the default or adjusted input voltage setting. Make sure the power source for the charger provides the correct input voltage.	
MAX CURRENT	Current is higher than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.	
SAFETY TIMER	Maximum safe time limit has been reached.	
MAX CAPACITY	Maximum capacity limit has been reached.	
MAX EXT. TEMP	External temperature is too high. Let charger and battery cool.	

# DYNAMITE 5-YEAR US LIMITED CHARGER WARRANTY INFORMATION

Horizon Hobby is so confident about the quality of our Dynamite chargers we offer a 5-year replacement plan on all of our Dynamite<sup>®</sup> Prophet<sup>™</sup> and Passport<sup>™</sup> chargers. Our 5-year replacement plan requires proof of purchase (copy of the receipt), and we do reserve the right to deny replacement to any abusers of our plan. See below for full details. Contact the appropriate Horizon Service Department for instructions on warranty claims.

# 5-YEAR US LIMITED WARRANTY

Warranty Period - Exclusive Warranty - Horizon Hobby, LLC ("Horizon") warrants that the included Dynamite Prophet, or Passport charger ("Product") will be free from defects in materials and workmanship for a period of five (5) years after the date of purchase ("Warranty Period").

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, or (vi) Product not compliant with applicable technical 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. Replacement Products are covered under this warranty for thirty (30) days after receipt or for the remainder of the Warranty Period of the Product which they have replaced, whichever is longer.

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 vary 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 www.horizonhobby.com, submit a Product Support Inquiry at https://horizonhobby.quickbase.com/db/bghj7ey8c?a=GenNewRecord, or 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-service-center. 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. YOU MUST CONTACT THE APPROPRIATE HORIZON SERVICE DEPARTMENT FOR ANY CHARGER WARRANTY CLAIM.

Warranty Requirements - For Warranty consideration, you must include your original sales receipt verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be serviced or replaced free of charge. Service or replacement decisions are at the sole discretion of Horizon.

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 ½ 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.

# NON-US LIMITED WARRANTY

What this Warranty Covers - Exclusive Warranty - Horizon Hobby, LLC (Horizon) warrants to the original purchaser that the product purchased (the "Product") will be free from defects in materials and workmanship at 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, or (vi) Product not compliant with applicable technical 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 vary 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 www.horizonhobby.com, submit a Product Support Inquiry at https://horizonhobby.quickbase.com/db/bghj7ey8c?a=GenNewRecord, or 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-service-center. 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.

NOTICE: Do not ship Li-Po batteries to Horizon. If you have any issue with a Li-Po battery, please contact the appropriate Horizon Product Support office.

Warranty Requirements - For Warranty consideration, you must include your original sales receipt verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be serviced or replaced free of charge. Service or replacement decisions are at the sole discretion of Horizon.

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 ½ 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.

# FCC INFORMATION

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.

# WARRANTY AND SERVICE CONTACT INFORMATION

Country of Purchase	Horizon Hobby	Contact Information	Address
United States of America	Horizon Service Center (Repairs and Repair Requests)	servicecenter.horizonhobby.com/ RequestForm/	4105 Fieldstone Rd Champaign, Illinois, 61822 USA
	Horizon Product Support (Product Technical Assistance)	www.quickbase.com/db/ bghj7ey8c?a=GenNewRecord	
		888-959-2306	
	Sales	sales@horizonhobby.com	
		888-959-2306	
United Kingdom	Service/Parts/Sales: Horizon Hobby Limited	sales@horizonhobby.co.uk	Units 1–4, Ployters Rd, Staple Tye Harlow, Essex, CM18 7NS, United Kingdom
		+44 (0) 1279 641 097	
Germany	Horizon Technischer Service	service@horizonhobby.de	Christian-Junge-Straße 1 25337 Elmshorn, Germany
	Sales: Horizon Hobby GmbH	+49 (0) 4121 2655 100	
France	Service/Parts/Sales: Horizon Hobby SAS	infofrance@horizonhobby.com	11 Rue Georges Charpak 77127 Lieusaint, France
		+33 (0) 1 60 18 34 90	
China	Service/Parts/Sales: Horizon Hobby – China	info@horizonhobby.com.cn	Room 506, No. 97 Changshou Rd. Shanghai, China 200060
		+86 (021) 5180 9868	

# COMPLIANCE INFORMATION FOR THE EUROPEAN UNION

# Declaration of Conformity (in accordance with ISO/IEC 17050-1)

No. HH2014122204

Product(s): Dynamite Ultra Force 220W Touch Charger

Item Number(s): DYNC3010EU, DYNC3010UK

The object of declaration described above is in conformity with the requirements of the specifications listed below, following the provisions of the EMC Directive 2004/108/EC and LVD Directive 2006/95/EC: EN55022:2010 + AC:2011

EN55022:2010 + AC.2011 EN55024:2010

EN61000-3-2:2006+A1:2009+A2:2009 EN61000-3-3:2008

EN60950-1:2006+A11:2009+A1:2010+A12:2011

Signed for and on behalf of: Horizon Hobby, LLC Champaign, IL USA

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 Mike Dunne
 Executive Vice President Product Divisions, Horizon Hobby, LLC

December 22, 2014 Executive Vice President Product Divisions, Horizon

This product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collections point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.

