

NOTICE ons, warranties and other collateral documents are subject to change at the sole on of Horizon Hobby, LLC. For up-to-date product literature, visit horizonhobby.com and lick on the support tab for this product. **MEANING OF SPECIAL LANGUAGE** e following terms are used throughout the product literature to indicate various levels of ential 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 lamage 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. nis is a sophisticated hobby product. It must be operated with caution and common sense and quires some basic mechanical ability. Failure to operate this Product in a safe and responsible anner could result in injury or damage to the product or other property. This product is not tended for use by children without direct adult supervision. Do not attempt disassembly, use ith incompatible components or augment product in any way without the approval of Horizon obby, LLC. This manual contains instructions for safety, operation and maintenance. It ential to read and follow all the instructions and warnings in the manual, prior to assembly p 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.

NOTION OF SET : To reduce the risk of fire or electric shock, carefully follow these instructions.

CHARGING WARNINGS

ARNING: Failure to exercise caution while using this product and comply with the llowing warnings could result in product malfunction, electrical issues, excessive heat RE, and ultimately injury and property damag

 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.

 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

Specifications 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. 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. Charge only rechargeable batteries. Charging non-rechargeable batteries may cause the batteries to burst, resulting in injury to persons and/or damage to property.

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

The socket-outlet shall be installed near the equipment and shall be easily accessible.

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 questions.

Included Items

JST_XH balance adapter (DYN5032) Banana plug to EC3™ battery connector (DYNC0066

AC power cord (one region—US, EU, AU or UK) DC power cord (DYNC1101)

Banana to Deans insulated charge adapter: male (DYNC0053)

Banana to Traxxas® insulated charge adapter: male (DYNC0054) Temperature Sensor (DYN5033)

Input Voltage | 100–240V AC (50–60Hz); 11–18V DC Charging Capability 1–6S Li-Po/Li-Ion/Li-Fe; 1-15C Ni-Cd/Ni-MH; 2-20V Pb

Battery Capacities | 50-10000 mAh Charge Current | 0.1A–6A (in 0.1A increments/80W max)

Discharge Current 0.10A-2.0A (in 0.1A increments/10W max) Balance Current 300mA max Balance tolerance | +/- 0.01V

Operating Temperature 0°C to + 40°C Charging Mode Ni-Cd/Ni-MH: Peak; Li-Po/Li-Ion/Li-Fe/Pb: CC/CV

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

GETTING STARTED

CAUTION: Before charging, always ensure you have chosen the correct battery chemist

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. Connect the DC power cord to the charger **DC Power Input Port (D)**.

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 (G)**.

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. Connect the AC power cord to the charger AC Power Input Port (F).

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 (G).

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. Select the charging settings

3. Connect the battery to the charger.

4. Start battery charging.

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

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

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 charge

PROGRAMMING QUICK GUIDE

- 1. Press the **Esc/Mode** Button to scroll through the main menu screens.
- Press the **< Dec** or **Inc >** Button to scroll through the program options.
- 4. Press **Start/Enter** to select a program option.
- 5. Press the **<Dec** or **Inc>** Button to change the parameter. Press the **Start/Enter**
- Button again to move to the next parameter. 6. Once the parameters are at the desired settings, press and hold the **Start/Enter**

LITHIUM BATTERIES (Li-Po / Li-Fe / Li-Ion)

PROGRAM SELECT Li** Battery

Li** CHARGE 65 C= 5000mAh 5.0A

Li** BAL-CHG C= 5000mAh

Li** STORAGE C= 5000mAh 5.0A

DCHG 3.0 _1** 1.0A 18.0V(6S)

Ni-MH BATTERIES

PROGRAM SELECT NiMH Battery

NiMH CHARGE Man CURRENT 1.0A NiMH CHARGE Aut. CUR LIMIT 1.0A

NIMH DISCHARGE 12.0V 1.0A

NIMH CYCLE C+DC=1.0A D=1.0A

Ni-Cd BATTERIES

PROGRAM SELECT NiCd Battery

NiCd CHARGE Man CURRENT 1.0A

NiCd CHARGE Aut CUR LIMIT 1.0A

NiCd DISCHARGE 1.0A 12.0V

MiCd CYCLE C+DC=1.0A D=1.0A

Pb BATTERIES

PROGRAM SELECT Pb Battery

Pb CHARGE 4.9U(2P) 0.1A

Pb DISCHARGE 4.9V(2P) 1.0A

DIGITAL POWER

PROGRAM SELECT Digital Power

POWER MODE 2.0A

12.00

SAVE DATA

PROGRAM SELECT Memory Save MEMORY NiMH AUTO 1.5A

LOAD DATA

PROGRAM SELECT Memory Load MEMORY NiMH AUTO

C В D 00 0000

A. Power Output Black (-)

B. Power Output Red (+) C. Balance Circuit Adapter Board Connector

D. DC Power Input Port E. Temperature Sensor Port

F. AC Power Input Port

G. LCD Screen H. ESC / MODE

> I. <DEC **J.** >INC K. START / ENTER

Not to scale. Not all wiring shown. Not all connectors shown. KINEXSIS KX80 AC/DC CHARGER G H I J

OPERATING YOUR CHARGER

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

KINEXSIS KXSC1002

© 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
- 2. Connect the JST_XH balance adapter to the **Balance Circuit Adapter Board Connector (C)**.
- 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 **Esc/Mode** Button to scroll through the main menu screens until you reach Program Select=Li-Po/Li-Ion/Li-Fe.

PROGRAM SELECT Li** Battery

- Press Start/Enter.
- Press the **< Dec** or **Inc >** Button to scroll through the program options (Charge, Balance Charge, Storage, Discharge).

Li** BAL-CHG 65 C= 5000mAh 5.0A

Press **Start/Enter** to select a program option.

will beep and display the following screen:

- Press the **<Dec** or **Inc>** Button to change the parameter. Press the **Start/Enter** Button again to move to the next parameter
- 10. Once the parameters are at the desired settings, press and hold the **Start/Enter** Button. 11. The charger will check the battery and charger settings and charging will begin. The charger

Li3S 2.0A 12.59V BAL 022:43 01082

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 **<Dec** to return to the charging

4.20 4.20 4.20 0.00 0.00 0.00

- 14. Press the **Esc / Mode** 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.

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
- 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 **Esc / Mode** button to scroll through the main menu screens until you reach Program
- Select=Li-Po/Li-Ion/Li-Fe.
- 6. Press the Start / Enter Button. 7. the **< Dec** or **Inc >** Button until Li-Po/Li-Ion/Li-Fe DCHG appears.

Li** DCHG 3.0 18.0V(6S) 1.00

- Press the **Start / Enter** Button to edit the parameter. Once the parameters are at the desired settings, press and hold **the Start / Enter** Button for
- 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 **Esc / Mode** at any time to stop discharging. 13. When discharging is complete, the charger will sound a series of beeps.
- 14. 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

- 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 **Esc/Mode** Button to scroll through the main menu screens until you reach Program Select=Li-Po/Li-Ion/Li-Fe.
- 6. Press the **Start / Enter** Button. 7. the **< Dec** or **Inc >** Button until Li-Po/Li-Ion/Li-Fe STORAGE appears.

LiPo STORAGE C= 5000mAh

- 8. Press the **Start / Enter** Button to edit the parameter
- 9. Once the parameters are at the desired settings, press and hold the **Start / Enter** Button for
- 3 seconds 10. The charger will check the battery and charger settings and storage charging will begin.
- 11. Press the **< Dec** or **Inc >** Button to see the rest of the storage Charging information. 12. Press **Esc / Mode** at any time to stop charging.
- 13. When charging is complete, the charger will sound a series of beeps.
- 14. Disconnect the battery from the charger.

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 **Esc/Mode** Button to scroll through the main menu screens until you reach Program Select=Ni-MH/Ni-Cd

PROGRAM SELECT NiMH Battery

4 Press the **Start/Enter** button

5 Press the < Dec or Inc > Button until Ni-MH/Ni-Cd CHARGE appears

NiMH CHARGE Man 1.0A

- 6. Press the **Start / Enter** Button to edit the parameter
- 7. Once the parameters are at the desired settings, press and hold the **Start/Enter** button for 3 seconds
- 8. The charger will check the battery and charger settings and charging will begin.
- 9. Press the **< Dec** or **Inc >** Button to see the rest of the Discharging information.
- 10. Press **Esc / Mode** at any time to stop discharging.
- 11. When discharging is complete, the charger will sound a series of beeps. 12. 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 **Esc/Mode** Button to scroll through the main menu screens until you reach Program Select=Ni-MH/Ni-Cd.

NIMH DISCHARGE 1.0A

- 4. Press the **Start/Enter** button.
- 5. Press the **< Dec** or **Inc >** Button until Ni-MH/Ni-Cd DISCHARGE appears.
- 6. Press the Start / Enter Button to edit the parameter.
- 7. Once the parameters are at the desired settings, press and hold the **Start/Enter** button for 3 seconds.
- 8. The charger will check the battery and charger settings and charging will begin.
- 9. Press the **< Dec** or **Inc** > Button to see the rest of the Discharging information.
- 10. Press **Esc / Mode** at any time to stop discharging.
- 11. When discharging is complete, the charger will sound a series of beeps.
- 12. Disconnect the battery from the charger.

7 - NICKEL CYCLE 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 **Esc/Mode** Button to scroll through the main menu screens until you reach Program Select=Ni-MH/Ni-Cd
- 4 Press the **Start/Enter** button
- 5. Press the **< Dec** or **Inc >** Button until Ni-MH/Ni-Cd DCHG>CHG appears.

NiMH CYCLE C C=1.0A D=1.0A

- 6. Press the **Start / Enter** Button to edit the parameter.
- 7. Once the parameters are at the desired settings, press and hold the **Start/Enter** button for 3
- 8. The charger will check the battery and charger settings and charging will begin.
- 9. Press the **< Dec** or **Inc** > Button to see the rest of the Cycle information.
- 10. Press **Esc / Mode** at any time to stop discharging. 11. When discharging is complete, the charger will sound a series of beeps.
- 12. 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.
- 2. Connect the battery connector to the battery adapter cable.
- 3. Press the **Esc/Mode** Button to scroll through the main menu screens until you reach Program Select=Pb BATT.

PROGRAM SELECT Pb Battery

- 4. Press the **Start/Enter** button.
- 5. Press the **< Dec** or **Inc >** Button until Pb CHARGE appears.

Pb CHARGE 4.9V(2P)

- 6. Press the **Start / Enter** Button to edit the parameter.
- 7. Once the parameters are at the desired settings, press and hold the **Start/Enter** button for 3 seconds
- 8. The charger will check the battery and charger settings and charging will begin. 9. Press the **< Dec** or **Inc** > Button to see the rest of the charging information.

CONNECTION BREAK

Make sure the battery pack is connected to the charger.

- 10. Press **Esc / Mode** at any time to stop discharging.
- 11. When charging is complete, the charger will sound a series of beeps.
- 12. Disconnect the battery from the charger.

9 - PR 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 **Esc/Mode** Button to scroll through the main menu screens until you reach Program Select=Pb BATT.
- 4. Press the **Start/Enter** button.
- 5. Press the **< Dec** or **Inc >** Button until Pb DISCHARGE appears.

Pb DISCHARGE

- 6. Press the **Start / Enter** Button to edit the parameter.
- 7. Once the parameters are at the desired settings, press and hold the **Start/Enter** button for 3
- 8 The charger will check the battery and charger settings and discharging will begin
- 9. Press the **< Dec** or **Inc** > Button to see the rest of the Discharging information. 10. Press Esc / Mode at any time to stop discharging.
- 11. When discharging is complete, the charger will sound a series of beeps. 12. Disconnect the battery from the charger.

10 - DIGITAL POWER

The Digital Power menu enables you to use the Kinexsis KX80 charger as a power supply for external devices. The maximum Digital Power output is 6A / 24V.

- 1. Connect the banana plugs of the external device to the **Power Output Black (–)** and **Power** Output Red (+), making sure that the positive and negative connectors are not reversed.
- 2. Press the **Esc / Mode** Button to scroll through the main menu screens until you reach Digital

PROGRAM SELECT Digital Power

- 3. Press the **Start / Enter** Button to edit the parameter.
- 4. Once the parameters are at the desired settings, press and hold the **Start / Enter** Button for 3 seconds.
- 5. Press the **Esc / Mode** Button at any time to stop supplying power to the external device.
- 6. Disconnect the external device from the charger.

11 - MEMORY SAVE

- The Memory Save menu option enables you to save 5 battery charging profiles that you use often.
- Press the **Esc / Mode** Button to scroll through the main menu screens until you reach Program Select - Memory Save.

PROGRAM SELECT Memory Save

- Press the **Start / Enter** Button to enter the Memory Save menu. The first time you enter the menu, the "0" model memory location flashes.
- Press the **< Dec** or **Inc >** Button to select a memory location (0-9), then press and hold the Start / Enter Button to save the selection. The BATT TYPE screen appears.
- Press the < Dec or Inc > Button to select the desired battery type, then press the Start/
- Enter Button.
- Adjust the battery parameters as you normally would for charging the battery. Press the Inc > Button to adjust the parameters for Balance Charge, Cycle, Storage, etc.
- Press and hold the **Start / Enter** Button for 3 seconds to save your selections. The charger screen displays "Saving..", then returns to the Memory Save screen.

MEMORY NiMH

12 - I OAD DATA

The Load Data menu option enables you to access the 5 battery charging profiles that you stored in the Save Data menu

Press the **Esc / Mode** Button to scroll through the main menu screens until you reach Program Select - Load Data.

> PROGRAM SELECT Memory Load

- Press the **Start / Enter** Button to enter the Load Data menu. The first time you enter the
- menu, the "0" model memory location flashes. Press the **< Dec** or **Inc >** Button to select a memory location (0-9)
- Press the **Start / Enter** Button for 3 seconds until the Charge screen appears Press the < Inc or Dec > Button to scroll through Charge, Balance Charge, Cycle, Discharge,
- Storage, etc. Press and hold the **Start / Enter** Button for 3 seconds to load the desired function.

MEMORY NiMH

13 - PROGRAM SELECT – USER SET

Press the **Esc / Mode** Button to scroll through the main menu screens until you reach Program

PROGRAM SELECT Tiser Set

- 2. Press the **Start / Enter** button to enter the User Set menu.
- 3. Press the **< Dec** or **Inc >** Button to scroll through the menu.
- 4. Press the **Start / Enter** Button to edit the parameter.
- i. Press the < Dec or Inc > Button to increase or decrease the value.
- Press the Start / Enter Button again to save the selection
- . Press the **Esc / Mode** Button to return to the main menu.

A -PRE CHARGE TIME (NI-MH/NI-CD BATTERIES ONLY)

If a Ni-MH or Ni-Cd battery is fully discharged, the battery charger may not detect the battery. The Pre-Charge Time enables you to apply a low charge rate, increasing the battery voltage to the point where the charger detects the battery.

> PreCharge Time ON/Off 1min

WARNING: Never use the Pre-Charge Time with Li-Po batteries. Doing so may cause

B-WAIT TIME CHG>DCHG DEFAULT IS 1 MINUTE

When you cycle a Ni-MH or Ni-Cd battery (charging, discharging and then charging again), the battery will get very warm. The Wait Time interval between each step of the process allows the battery to cool before starting the next step. Default time is 1 minute, but this can be set between 0 and 60 minutes. Always allow the battery to cool to room temperature before charging or discharging.

5min

Wait Time CHG>DCHG

C-NIMH SENSITIVITY D. PEAK - DEFAULT

The D.Peak (Delta Peak) value is adjustable between 5mV/Cell and 20mV/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

> NiMH Sensitivity D. Peak Default

D-NICD SENSITIVITY D. PEAK - DEFAULT

The D.Peak (Delta Peak) value is adjustable between 5mV/Cell and 20mV/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 Default

E-TEMP. CUT-OFF DEFAULT IS 80C/176F

plicable technical regulations.

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).

Temp.Cut-off ON 80C(176F)

F-SAFETY TIMER DEFAULT IS ON. 240MIN

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 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.

> Saftey Timer ON/OFF 12 120min

G-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

Capacity Cut-Off

H -INPUT POWER LOW CUT-OFF DEFAULT IS 11.0V

Use the Input Power Low Cut-Off menu to set the input voltage limit. An alarm will sound if the input voltage falls below the cut-off value. The voltage alarm value can be set between

Input Power Low Cut-Off 10.0

I-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 or if there is cause for alarm during charging.

> ONZOFF Key Beer ONZOFF

J -SCREEN SAVER (DEFAULT ALWAYS OFF)

Use the Screen Saver menu to adjust the amount of time that the backlight stays on. The default setting is "Always OFF", meaning the backlight stays on as long as the charger is powered on. If you change the value to 1 min, the backlight will turn off after 1 minute of

> Screen saver Alway OFF

K-FACTORY RESET PRESS ENTER > 2S

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

Factory reset Press Enter > 25

LIMITED WARRANTY

What this Warranty Covers - Horizon Hobby, LLC (Horizon) warrants to the original purchaser that at https://horizonhobby.quickbase.com/db/bghj7ey8c?a=GenNewRecord, or call the toll free telethe product purchased (the "Product") will be free from defects in materials and workmanship at phone number referenced in the Warranty and Service Contact Information section to speak with a

What is Not Covered - This warranty is not transferable and does not cover (i) cosmetic dam- Inspection or Services - If this Product needs to be inspected or serviced and is compliant in the

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 warrantv 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 WAR-RANTY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY.

Limitation of Liability - HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR sales receipt verifying the proof-of-purchase date. Provided warranty conditions have been CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY met, your Product will be serviced or replaced free of charge. Service or replacement decisions are WAY, REGARDLESS OF WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, TORT, NEG. at the sole discretion of Horizon. LIGENCE, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY, EVEN IF HORIZON HAS BEEN Non-Warranty Service - Should your service not be covered by warranty, service will be

condition to the place of purchase. Law - These terms are governed by Illinois law (without regard to conflict of law principals). This zon's Terms and Conditions found on our website http://www.horizonhobby.com/content/_servicewarranty gives you specific legal rights, and you may also have other rights which vary from state center_render-service-center. 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

Product Support representative

age, (ii) damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or due country you live and use the Product in, please use the Horizon Online Service Request submission lation, operation or maintenance, (iii) modification of or to any part of the process found on our website or call Horizon to obtain a Return Merchandise Authorization (RMA) Product, (iv) attempted service by anyone other than a Horizon Hobby authorized service center, number. Pack the Product securely using a shipping carton. Please note that original boxes may be (v) Product not purchased from an authorized Horizon dealer, or (vi) Product not compliant with apincluded, 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 OTHER THAN THE EXPRESS WARRANTY ABOVE, HORIZON MAKES NO OTHER WARRANTY OR responsible for merchandise until it arrives and is accepted at our facility. An Online Service Request REPRESENTATION, AND HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, is available at http://www.horizonhobby.com/content/_service-center_render-service-center. If you WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABIL- do not have internet access, please contact Horizon Product Support to obtain a RMA number along ITY AND FITNESS FOR A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY with instructions for submitting your product for service. When calling Horizon, you will be asked ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF 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

IOTICE: 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

ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Further, in no event shall the liability of Horizon completed and payment will be required without notification or estimate of the expense exceed the individual price of the Product on which liability is asserted. As Horizon has no control unless the expense exceeds 50% of the retail purchase cost. By submitting the item for serover use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted vice you are agreeing to payment of the service without notification. Service estimates are available for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all result-upon request. You must include this request with your item submitted for service. Non-warranty ing liability. If you as the purchaser or user are not prepared to accept the liability associated with service estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for return the use of the Product, purchaser is advised to return the Product immediately in new and unused 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 Hori-

> 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.

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

Make sure each connection polarity is correct between the power source and the charger, then between the charger and the battery.
Make sure the power connections are correct for charging.
Make sure there are no short circuits between the poles of the battery or the battery and the charger. Replace damaged wires.
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 electronics require repair.
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 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 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 voltage is higher than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.
Make sure the balance connection is correct for charging.
Charger temperature is too high. Power OFF the charger and let it cool.
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.
Current is higher than the value setting in the charger. Adjust settings, then make sure the battery is not damaged or replace the battery.
Maximum safe time limit has been reached.
Maximum capacity limit has been reached.
External temperature is too high. Let charger and battery cool.

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/	
	Horizon Product Support	www.quickbase.com/db/bghj7ey8c?a=GenNewRecord	4105 Fieldstone Rd
	(Product Technical Assistance)	888-959-2306	Champaign, Illinois, 61822 USA
	Sales	sales@horizonhobby.com	
		888-959-2306	

nt 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 reasonate nst 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