



Passport™ Duo 400W Dual AC/DC Touch Charger

Instruction Manual | Bedienungsanleitung | Manuel d'utilisation | Manuale di Istruzioni

(DYN3005)



ENGLISH

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.

CHARGING WARNINGS

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 CHARGING BATTERIES UNATTENDED.
- 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 questions.

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INCLUDED ITEMS

- (2) Banana plug to EC3™ battery connector (DYN3006)
- AC power cord (one region—US, EU, AU or UK)
- (2) JST_XH balance adapter (DYN5032)

OPTIONAL ITEMS

- DC power cord (DYN4012)
- Banana to Traxxas® insulated charge adapter: male (DYN30054)
- Charger lead with receiver connector (DYN30033)
- Banana to Deans insulated charge adapter: male (DYN30053)
- LiPo Charge Protection Bag, Small (DYN1400)
- LiPo Charge Protection Bag, Large (DYN1405)
- Temperature Sensor (DYN5033)

SPECIFICATIONS

Input Voltage	100-240V AC; 11-18V DC
Charging Capability	1-6S Li-Po/Li-Ion/Li-Fe; 1-10C Ni-Cd/Ni-MH; 2-24V Pb
Battery Capacities	50-10000 mAh
Charge Current	0.01-10.0A (in 0.1A increments/200W max per channel)
Discharge Current	0.01-5A (in 0.1A increments/200W max per channel)
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

Using an AC Power Source:

1. Ensure the charger is powered OFF.
2. Connect the AC power cord (**D**) to the AC power source.
3. Power ON the charger with the Power Switch (**A**).
4. When the charger is powered ON, a message will appear on the **LCD Touch Screens (E,F)**.

Using a DC Power Source:

1. Connect the DC power cord to the charger DC Power Input Port (**C**)
2. Connect the DC alligator clips to the DC power source.
3. Power ON the charger with the Power Switch (**A**).
4. When the charger is powered ON, a message will appear on the **LCD Touch Screens (E,F)**.

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.

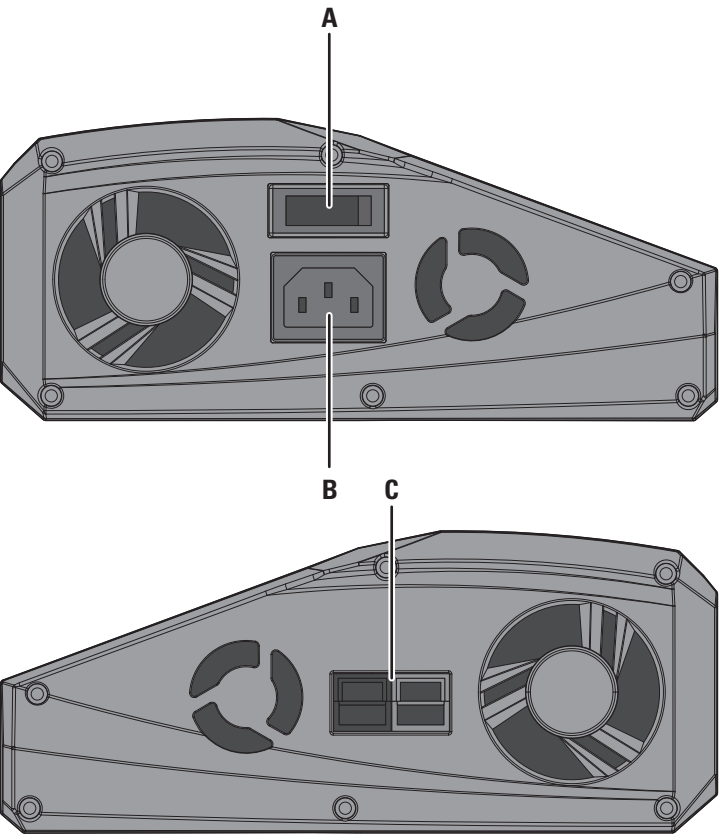
1. With charger powered on, select charging settings.
2. Connect the battery to the charger.
3. Start battery charging.

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

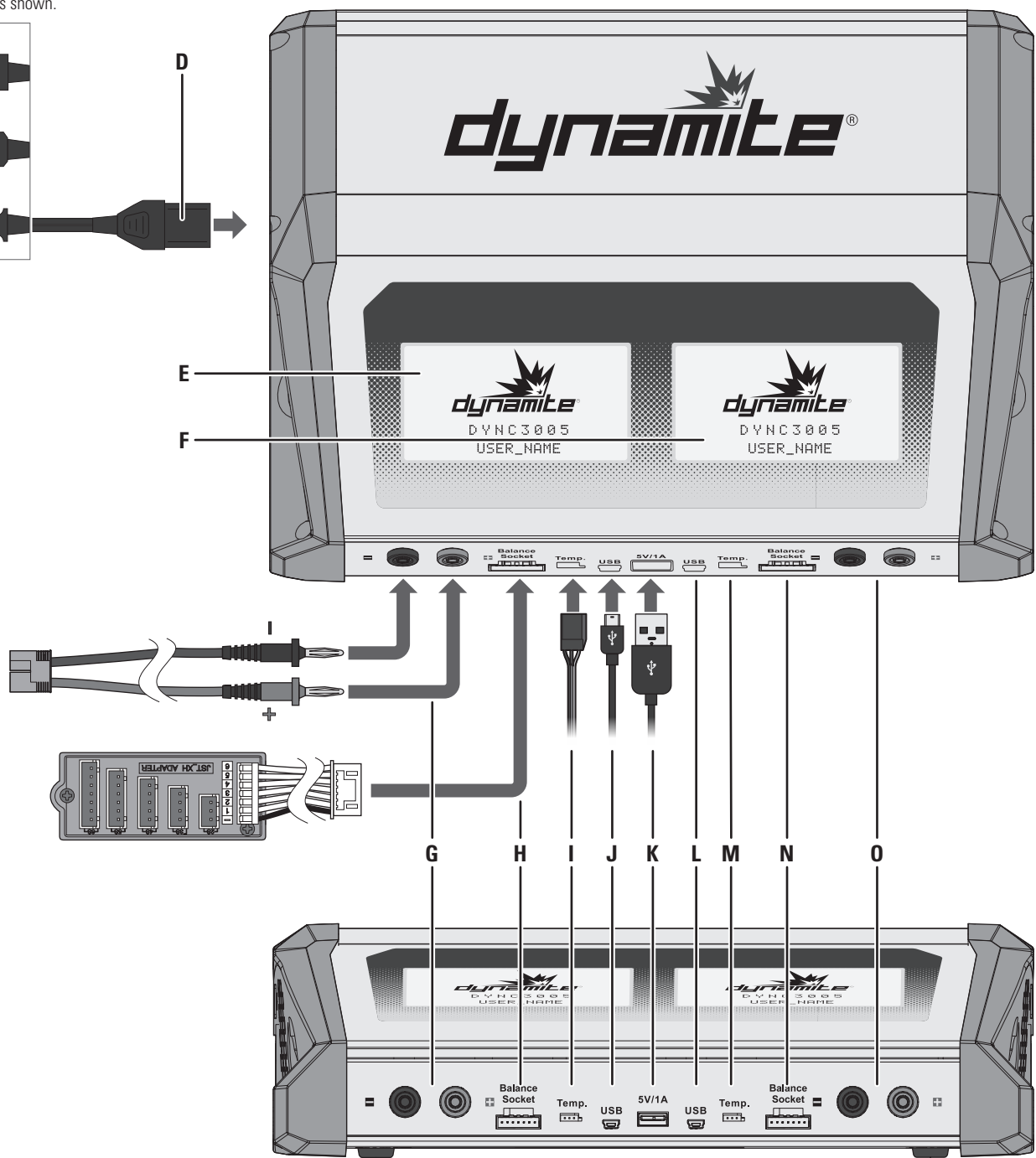
PROGRAMMING QUICK GUIDE

1. 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.
6. 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.
7. Press **Back** to return to the main menu screens.

- A.** Power Switch
- B.** AC Power Input Port
- C.** DC Power Input Port
- D.** AC Power Cord
- E.** Charger 1- LCD Screen
- F.** Charger 2- LCD Screen
- G.** Charger 1- Power Output Ports
- H.** Charger 1- Balance Board Port
- I.** Charger 1- Temperature Sensor Port
- J.** Charger 1- Micro USB Port (Software updates ONLY; do not use for charging)
- K.** 2.1A USB Power Output Port
- L.** Charger 2- Micro USB Port (Software updates ONLY; do not use for charging)
- M.** Charger 2- Temperature Sensor Port
- N.** Charger 2- Balance Board Port
- O.** Charger 2- Power Output Ports



Not to scale.
Not all wiring shown.
Not all connectors shown.



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

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.



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.

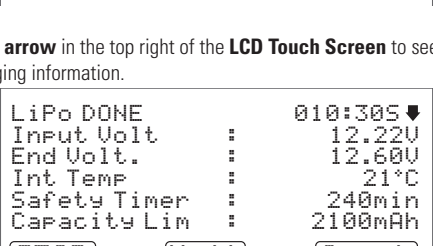
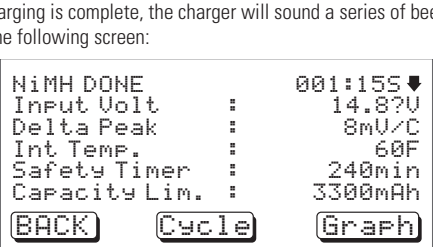
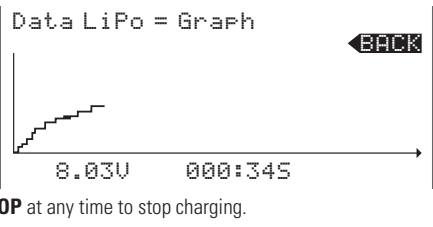
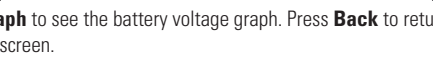
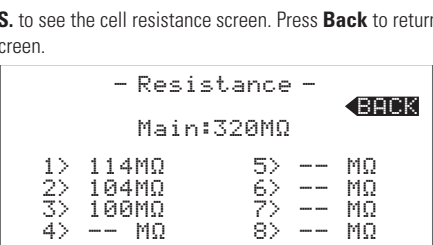
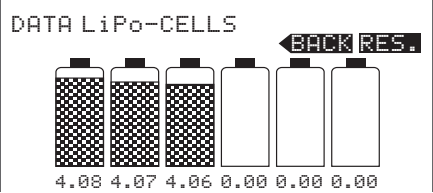
CAUTION: Using a charge rate that is not compatible with the battery capacity may result in damage or malfunction of the charger or battery.

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 charger.

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

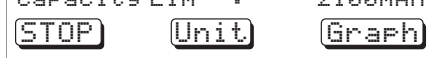
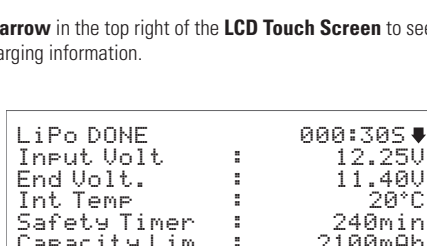
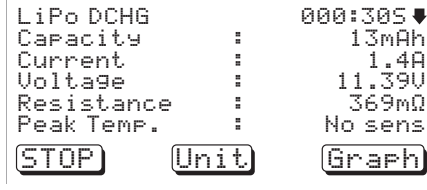
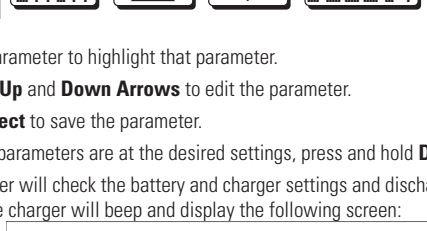
2- LITHIUM (LI-PO/LI-Fe/LI-ION/LI-HV) CHARGING

1. Connect the JST_XH balance adapter to the **Balance Circuit Adapter Board Connector (6)**.
2. Connect the battery connector to the device connector.
3. Connect the balance connector of the battery to the JST_XH balance adapter.
4. 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/Li-HV.
5. Press **CHG**.
6. Press a parameter to highlight that parameter.
7. Press the **Up and Down Arrows** to edit the parameter.
8. Press **Select** to save the parameter.
9. Once the parameters are at the desired settings, press and hold **CHARGE**.
10. The charger will check the battery and charger settings and charging will begin. The charger will beep and display the following screen:



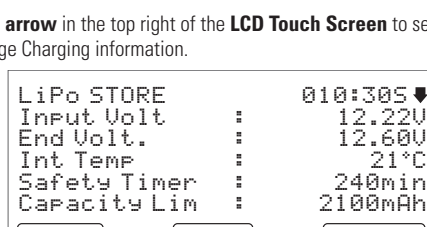
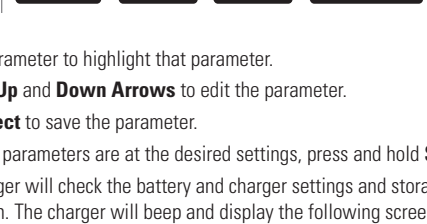
3- LITHIUM DISCHARGING

1. Connect the JST_XH balance adapter to the **Balance Circuit Adapter Board Connector (6)**.
2. Connect the battery connector to the device connector.
3. Connect the balance connector of the battery to the JST_XH balance adapter.
4. 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/Li-HV.
5. Press **DCHG**.
6. Press a parameter to highlight that parameter.
7. Press the **Up and Down Arrows** to edit the parameter.
8. Press **Select** to save the parameter.
9. Once the parameters are at the desired settings, press and hold **DISCHRG**.
10. The charger will check the battery and charger settings and discharging will begin. The charger will beep and display the following screen:



4- LITHIUM STORAGE CHARGING

1. Connect the JST_XH balance adapter to the **Balance Circuit Adapter Board Connector (6)**.
2. Connect the battery connector to the device connector.
3. Connect the balance connector of the battery to the JST_XH balance adapter.
4. 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/Li-HV.
5. Press **STOR**.
6. Press a parameter to highlight that parameter.
7. Press the **Up and Down Arrows** to edit the parameter.
8. Press **Select** to save the parameter.
9. Once the parameters are at the desired settings, press and hold **STORE**.
10. The charger will check the battery and charger settings and storage charging will begin. The charger will beep and display the following screen:



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

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

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

1. Connect the battery connector to the device connector.
2. 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.
3. Press **CHG**.
4. Press a parameter to highlight that parameter.
5. Press the **Up and Down Arrows** to edit the parameter.
6. Press **Select** to save the parameter.
7. Once the parameters are at the desired settings, press and hold **CHARGE**.
8. The charger will check the battery and charger settings and charging will begin. The charger will beep and display the following screen:
9. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the Charging information.
10. Press **Graph** to see the battery voltage graph. Press **Back** to return to the charging screen.
11. Press **STOP** at any time to stop charging.
12. When charging is complete, the charger will sound a series of beeps and display the following screen:
13. Press the **arrow** in the top right of the **LCD Touch Screen** to see the rest of the Charging information.
14. Disconnect the battery from the charger.

