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DeepSeaSupply
995 So. Fair Oaks Ave.
Pasadena CA 91105
Phone 626-799-5078
Fax 626-799-0923
Email info@deepseasupply.com
Web www.deepseasupply.com

DeepSeaSupply MkIII Lithium-Ion Battery Charger Instructions

These instructions are for the DeepSeaSupply MkIII Lithium-Ion Battery Charger for use with DeepSeaSupply 44.4 volt, 26 amp hour Lithium-Ion DPV battery. These instructions are not applicable to any other charger, battery, or other device.

Do not attempt to recharge any other battery including other voltage DSS Lithium Ion Batteries.

These instructions include and make specific reference to additional documents; **"Cuda Fury 1150 Lithium-Ion X Scooter Battery Disclosure Sheet", and "Cuda Fury 1150 Lithium-Ion X Scooter Specification Sheet"** These are available from DeepSeaSupply. All cautions and warnings apply. Refer to your DPV manual as required.

Always remove the battery from the DPV hull for charging. Never charge a hot battery.

Do not recharge in occupied residential buildings. Recharge in areas free of flammable materials. Do not recharge unattended.

Do not use any adapters. Do not use if charger leads or connectors, or battery leads or connectors are damaged. Do not use if battery or charger is damaged. **Do not charge any other batteries. Doing so can lead to fire, explosion, injury or death.**

Plug charger into ac supply and turn on the charger. The display should read: "Waiting for Battery, Source = 12.0 volts" (Source Voltage is approximate, 11.8 ~ 13.8 is ok)

Charger lid must be fully open to provide sufficient air flow for cooling.

Connect Battery to charger. Display should read: "12 Cells Detected Charge". If display continues to read " Waiting for battery" after connecting battery, depress and hold red button for 3 seconds.

Once a battery is detected the display will indicate the charge current, the number of cells (should be 12), the mode (1, 2, 3) the battery voltage, the time the charger has been charging and the amp hours of charge returned to the battery.

Normal charging includes three modes. These modes are automatic. Mode 1 is a reduced current conditioning charge for the first three minutes. Mode 2 is the main charge. Mode 3 pulse charges to provide a very accurate full charge. The current is interrupted and the battery voltage is allowed to stabilize. If this voltage is less than 50.4 volt the charger will provide a pulse, stop, and again sample the battery voltage. This will continue until the battery remains at 50.4 when the charger is "off." Once this point is reached the display will read "Charge Done", the final battery voltage, and the total amp hours returned to the battery. Mode 3 can require an hour or more as the effective charge rate is very slow.

Note The charger will beep when changing modes. One Beep when Mode 1 is complete, 2 Beeps when Mode 2 is complete, and 3 Beeps when Mode 3 (Charge Done) is complete. Continuous Beeping indicates a error.

Typical charge times for fully depleted batteries can approach 12 hours. Do not leave this charger connected to the battery during storage.

This charger can generate several error messages. To recover from any error message, disconnect the battery from the charger if connected, and turn the **Power and Reset** toggle switch to off for 30 seconds.

"**Over Voltage Error**" can occur if the battery is disconnected during recharge and prior to "Charge Done"

"**Shorted Output**" will occur if the battery voltage is too low to allow safe recharge, or if there is a short circuit in the charger leads, battery leads or connectors. Be sure to correct fault before proceeding.

"Timed Out" may occur if the battery does not reach "Charge Done" status in 12 hours. This is unlikely but possible. Disconnect battery, turn off power and restart charger.

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