Welcome,
Thank you for purchasing the Venom 0683 2-4 Cell AC/DC LiPO Balance Charger. Please make sure you read and fully understand the entire manual before beginning the charging process. If you read the manual and still are unsure how to use this product, please contact our Customer Service Department for assistance.

Thank You.

VENOM™
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FEATURES

1. Automatically identifies cell count.
2. Begins charging pack upon connection and will stop charging when proper voltage is achieved.
3. Charger automatically adjusts charging amperage based upon pack requirements and charger temperature.
4. Charger can be used as a voltage checker by manually setting the charge current to “0”.

CHARGER OVERVIEW

The Venom 2-4 Cell AC/DC LiPO Balance Charger is an easy to use charger designed to charge 2 to 4 cell LiPO and LiFE batteries using an AC or DC input. This charger allows the user to charge up to a maximum of 4 cells at a time. The user can charge two 7.4V 2S packs at the same time*, or one 11.1V 3S or one 14.8V 4S pack.

*When charging two 2S packs at the same time, the max charge rate will be 1.5A per battery
SPECIFICATIONS

1. Charger Power: 40W
2. Supports JST-XH2.5 battery connector (standard balance plug)
3. Current rate range: 0-3.0A
4. Supports simultaneous charging of two, 2S packs, or a single 3S or single 4S LiPO or LiFE battery.
5. Supports AC or DC power: AC 100-240V, DC 10-18V

EXTERIOR DESCRIPTION

- DC INPUT
- AC INPUT
- LCD SCREEN
- BUTTON 1: BATTERY SWITCH
- BUTTON 2: CURRENT RATE SET UP
- BUTTON 3: MENU SWITCH
- BALANCE WIRE CONNECTORS
How To Use Your Charger

1. Use the DC input or AC input to power up the charger.

2. Choose the correct battery type (LiPO / LiFE) by pressing Button 1. Please refer to your battery charging guidelines.

3. Choose a current rate for your battery using Button 2. Please see top of page 7 for battery charging guidelines.

   **Button 1:** Switches battery type from LiPO to LiFE

   **Button 2:** Changes the charge rate, 0 Amp -3 Amp. (Set the charge rate within 60 seconds of plugging the battery in).

   **Button 3:** Menu display switches between 4 different interfaces:

   **Interface 1:** Total Voltage, current rate/time/charging status.

   **Interface 2:** Individual cell voltages.

   **Interface 3:** Individual cell mAh input.

   **Interface 4:** Individual cell current rate.

4. Connect battery, the charger will identify the cell count and begin charging automatically.
Charger Warning & Error Messages

Input Voltage Error:
The charger input voltage must be between 10 and 18 volts to operate properly. If input voltage is lower or higher then you will get a “PW Err” power error.

Charging Status Indication:
“CHGING” will be shown on the left side of Interface 1.

Full Charge Indication:
“FULL” will be shown on the left side of Interface 1 and current rate will “0”.

WARNINGS
Please read this manual carefully before use.
Please keep this product away from water, corrosive gasses, dust and wet environments.

EACH BATTERY MUST BE THE SAME CHEMISTRY WHEN CHARGING TWO BATTERIES AT THE SAME TIME!
Incorrect connections may damage the battery, or destroy the charger and void all warranties.
1. Always use a charger specifically designed for Lithium Polymer batteries. Never use NiCD or NiMH type chargers to charge LiPO batteries. Doing so will damage the batteries and may cause fire and personal injury.

2. Always charge batteries in a fire proof container, in the open and away from flammable materials. Do not charge batteries on or near wood, cloth, carpet, in your model, or on or near any other flammable material. Keep a chemical fire extinguisher nearby in case of fire.

3. Never leave batteries unattended while charging. Always observe batteries when charging so that you may react quickly to any problems that may occur.

4. LiPO cells feature a separate balancing plug that isolates each cell in a pack and charges it independently. This ensures that all cells peak equally and discharge at the same rate during use, preventing one or more cells from discharging past their safe low voltage cut off rating. The balancing plug can be identified by the multi wire JST XH plug.

5. Charge each battery pack individually. Never charge battery packs in series. Charging packs in series may result in improper charger cell recognition and an improper charging rate that may lead to overcharging, cell damage and fire.

6. Always check to make sure that your charger settings match those listed on the battery pack label. Refer to the battery label for the proper cell count and charging amperage setting. Selecting a cell count or amperage charge rate other than the one listed on the battery pack will damage the battery and may cause a fire.

7. Make sure the battery connections are connected in the correct polarity. Incorrect connections will damage the battery/charger and may cause a fire.

8. Always check battery pack voltage before charging. Do not discharge LiPO batteries below 3.0 Volts per cell. The voltage of a typical LiPO cell at rest is 3.7 Volts. If the battery pack appears swollen or damaged, DO NOT CHARGE, DISCHARGE, OR USE IN ANY WAY. Please contact the battery manufacturer for further instructions.
9. Do not charge at over 1C current. \( C = \) battery pack mAh capacity \( \div \) 1000. Divide the battery mAh capacity by 1000 to determine the proper charge rate. Example: 1200mAh \( \div \) 1000 = 1.20 Amps Charge Rate for LiPO Battery Packs, 
   example:
   a. 800mAh Capacity = 0.80 Amps
   b. 1200mAh Capacity = 1.20 Amps
   c. 2000mAh Capacity = 2.00 Amps

10. Battery Temperature is critical. For optimum performance in cold climates, warm the pack to 100\(^\circ\)F / 37\(^\circ\)C before use. Please use the following guidelines:
   a. Charge Temp Range: 32 - 110\(^\circ\)F / 0-43\(^\circ\)C
   b. Discharge Temp Range: 32 - 140\(^\circ\)F / 0-60\(^\circ\)C
   c. Storage Temp Range: -80\(^\circ\)F / -4-26\(^\circ\)C

11. If the battery swells or “balloons” or if the battery exceeds temperature guidelines, follow these safety steps:
   a. Immediately remove the battery pack from your model or charger.
   b. Place the battery in a non-flammable, well ventilated area.
   c. Observe the battery for 30 minutes from a safe distance.
   d. After 30 minutes, if the pack appears stable, is not swollen and does not show any signs of damage, return the battery pack to normal with caution.

12. If a battery is deformed, swollen or appears damaged, DO NOT CHARGE, DISCHARGE or USE IN ANY WAY. Please contact the battery manufacturer for further instructions.

**WARNING:** CHARGING OR DISCHARGING A DEFORMED, SWOLLEN OR DAMAGED BATTERY WILL INCREASE THE RISK OF FIRE AND/OR PERSONAL INJURY.
Venom warrants all products to be free of material and workmanship defects for a period of 30 days from date of purchase for all electronic components. If a component is defective or was not correctly made, Venom will, at its sole discretion, repair or replace the item free of charge. This is a non-transferable warranty and does not cover normal wear and tear, overloading, water damage, modifications or any damages arising as a result of improper use.