

Youme Power 2-YM2S52H80CNTrx

Youme Power 7.4V 2S 5200mAh 80C LiPo Battery Instruction Manual

Model: 2-YM2S52H80CNTrx

1. IMPORTANT SAFETY INSTRUCTIONS

Read the following content carefully before using your Youme Power LiPo battery. Failure to follow these instructions can result in fire, personal injury, and property damage.

- **Charging:** Use only approved LiPo Balance Chargers. Never charge batteries unattended. Do not overcharge beyond 4.2V per cell or over-discharge below 3.2V per cell.
- **Storage:** Remove the battery from devices when not in use. Store in a cool, dry place away from direct sunlight and heat sources.
- **Handling:** Do not puncture, drop, short-circuit, or disassemble the battery. Avoid using the battery if it shows signs of heating, deformation, leakage, gas venting, or any other abnormal behavior.
- **Leakage:** If liquid from the battery comes into contact with skin or eyes, wash immediately with clean water and seek medical attention.
- **Disposal:** Dispose of LiPo batteries according to local regulations. Do not dispose of in regular trash.

PACKING DETAILS



PACKAGING



INSTRUCTIONS



AB BUCKLE

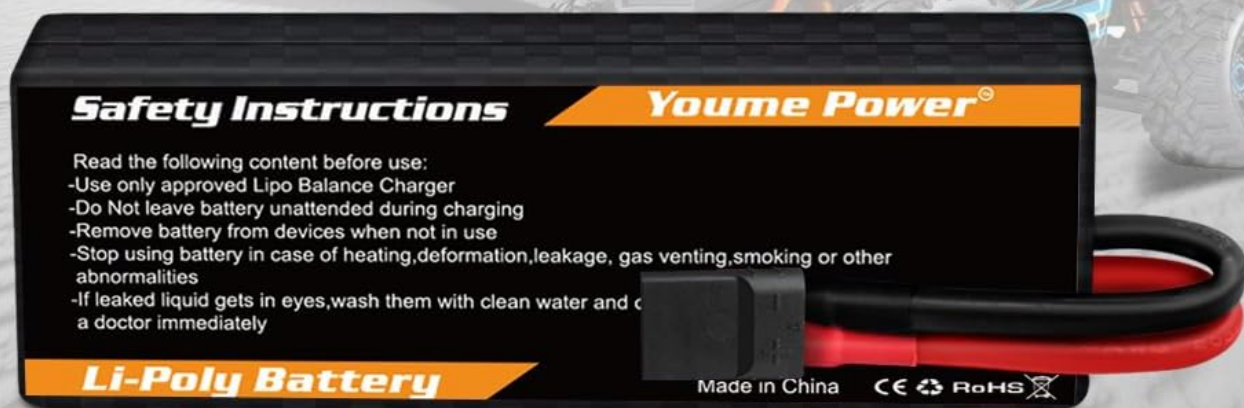


Image 1: Youme Power LiPo battery showing the safety instructions label and packaging components (packaging, instructions, AB buckle).

2. PRODUCT OVERVIEW

The Youme Power 7.4V 2S 5200mAh 80C LiPo battery is designed for various RC models, offering high discharge rates and a long cycle life. This battery features a soft case design and comes with an XT60 plug, along with XT60 male to Tr Female adapters for broader compatibility.



Image 2: Detailed view of the Youme Power LiPo battery, highlighting its 10AWG silicone wire, 3-pin balance port, and T-R connector.

3. SPECIFICATIONS

Brand	Youme Power
Model Number	2-YM2S52H80CNTrx
Battery Type	Li-Polymer (LiPo)
Cell Configuration	2S (2 Cells in Series)
Voltage	7.4V
Capacity	5200mAh
Discharge Rate	80C

Cell Voltage Range	3.2V - 4.2V
Suggested Charge Rate	0.5C - 1C (2.6A - 5.2A)
Charge Plug	JST-XH
Discharge Plug	XT60 (with Tr adapters included)
Wire Gauge	10 AWG Silicone Wire
Approximate Weight	289g ± 2g (0.64lb / 10.19oz)
Dimensions (L*W*H)	139*47*25mm ± 3mm (5.47*1.85*0.98inch)

BATTERY PARAMETERS



Battery Voltage
7.4V



Battery Capacity
5200mAh



Discharge Rate
80C



Connector Type
T-R



Balancer Connector Type
JST-XHR



Cell Configuration
2S1P

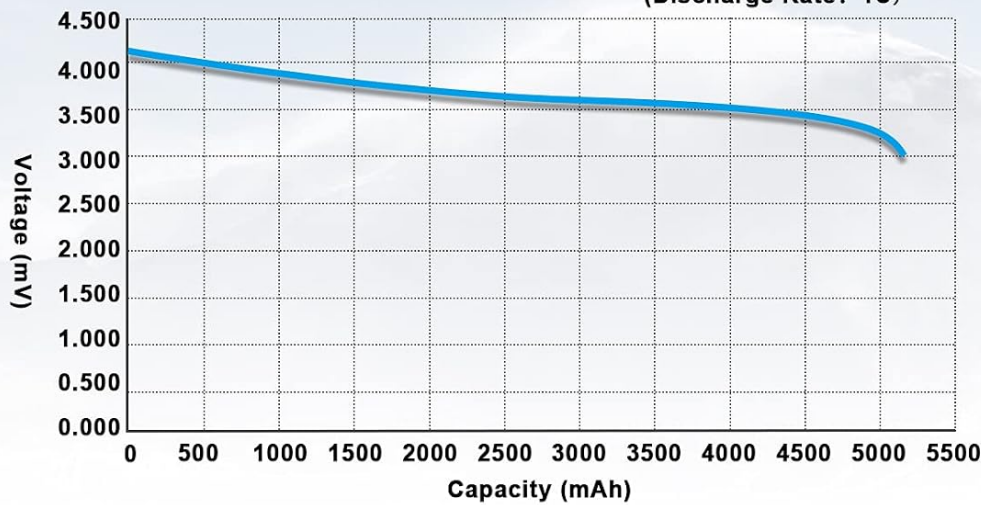


Weight: 289g / 0.64lb / 10.19oz

Image 3: Visual representation of the battery's key parameters: 7.4V Voltage, 5200mAh Capacity, 80C Discharge Rate, T-R Connector Type, JST-XHR Balancer Connector Type, and 2S1P Cell Configuration.

ABOUT CAPACITY

Youme 5200mah Lipo Battery Discharge Curve
(Discharge Rate: 1C)



The capacity is 2084.5mAh when lipo battery discharge to 3.7V
Suggest discharge to 3.2V to get more capacity

Step Name	Discharge Time (h:min:s.ms)	Voltage(V)	Capacity(mAh)
Constant Current Discharge	0:00:00.000	4.1834	0
Constant Current Discharge	0:02:10.000	4.1003	180.5
Constant Current Discharge	0:06:44.000	4.0001	561.0
Constant Current Discharge	0:12:18.000	3.9000	1024.9
Constant Current Discharge	0:18:04.000	3.8008	1505.4
Constant Current Discharge	0:25:01.000	3.7003	2084.5
Constant Current Discharge	0:37:35.000	3.6002	3131.7
Constant Current Discharge	0:51:59.000	3.5001	4331.6
Constant Current Discharge	0:58:20.000	3.4002	4860.8
Constant Current Discharge	1:00:29.000	3.3010	5039.9
Constant Current Discharge	1:01:14.000	3.2018	5202.4

Image 4: Discharge curve and capacity table for the Youme Power 5200mAh LiPo battery, showing voltage and capacity over time during discharge at 1C rate.

4. SETUP AND INSTALLATION

Before installing the battery, ensure your RC model is compatible with 2S (7.4V) LiPo batteries and can accommodate the battery's dimensions (139x47x25mm).

- 1. Check Compatibility:** Verify that your RC vehicle's electronic speed controller (ESC) and motor are rated for 2S LiPo batteries.
- 2. Physical Fit:** Ensure the battery fits securely within the battery compartment of your RC model.
- 3. Connector:** The battery comes with an XT60 discharge plug. If your RC model uses a Tr connector, use the provided XT60 male to Tr Female adapter. Connect the adapter firmly to the battery's XT60 plug, then connect the Tr end to your RC model.
- 4. Balance Lead:** The JST-XH balance lead is used for charging and monitoring cell voltage. Ensure it is not pinched or damaged during installation.

5. CHARGING INSTRUCTIONS

Proper charging is essential for the longevity and safety of your LiPo battery. Always use a dedicated LiPo balance charger.

- 1. Connect to Charger:** Connect the main XT60 discharge plug of the battery to the charger's output port.
- 2. Connect Balance Lead:** Connect the JST-XH balance lead to the balance port on your charger. This is crucial for ensuring all cells are charged equally.
- 3. Set Charger Parameters:**
 - Select "LiPo Balance Charge" mode.
 - Set the voltage to **7.4V (2S)**.
 - Set the charge current. The suggested charge rate is 0.5C to 1C. For a 5200mAh battery, this corresponds to **2.6A to 5.2A**. Charging at a lower C-rate (e.g., 0.5C) can extend battery life.
- 4. Monitor Charging:** Never leave the battery unattended during charging. Monitor the battery for any signs of swelling, overheating, or smoke. Discontinue charging immediately if any abnormalities are observed.
- 5. Full Charge:** The charger will indicate when the battery is fully charged (typically 4.2V per cell). Disconnect the battery from the charger once charging is complete.

6. OPERATION GUIDELINES

Follow these guidelines for safe and optimal performance during use:

- **Initial Charge:** Always fully charge the battery before its first use.
- **Discharge Limits:** Do not discharge the battery below 3.2V per cell. Most ESCs have a low voltage cutoff (LVC) feature; ensure it is set correctly for LiPo batteries (typically around 3.2V-3.4V per cell). Over-discharging can permanently damage the battery.
- **Temperature:** Avoid operating the battery in extreme temperatures. High temperatures can degrade performance and lifespan, while very low temperatures can reduce capacity and increase internal resistance.
- **Physical Protection:** Ensure the battery is securely mounted in your RC model to prevent movement and damage during operation.
- **Post-Use:** After use, allow the battery to cool down before recharging. If the battery will not be used for an extended period, store it at a storage voltage (typically 3.8V-3.85V per cell).

7. MAINTENANCE

Proper maintenance extends the life and performance of your LiPo battery:

- **Regular Inspection:** Periodically inspect the battery for any physical damage, swelling, or loose connectors.
- **Cleaning:** Keep the battery and connectors clean and free from dirt or debris.
- **Storage Voltage:** For long-term storage (more than a few days), charge or discharge the battery to a storage voltage of 3.8V-3.85V per cell. This helps prevent degradation.
- **Cycle Life:** The battery is designed for a long cycle life (150 times minimum). Following proper charging and discharging practices will help achieve this.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Battery not charging	Incorrect charger settings, faulty charger, damaged battery, loose connections.	Verify charger settings (LiPo, 2S, correct current). Check all connections. Inspect battery for damage. Try a different charger if available.
Reduced run time or power	Battery degradation, over-discharge, incorrect LVC setting, cold weather.	Ensure battery is fully charged. Check LVC setting on ESC. Avoid over-discharging. Warm battery before use in cold conditions. Consider battery replacement if degradation is significant.
Battery swelling or overheating	Overcharging, over-discharging, internal short circuit, physical damage.	Immediately discontinue use and charging. Place the battery in a fire-safe container. This indicates a serious safety risk; the battery should be safely disposed of and replaced.
Connectors not fitting	Incompatible connectors, incorrect adapter use.	Ensure you are using the correct XT60 to Tr adapter if your RC model requires a Tr connector. Verify the orientation of the connectors.

9. WARRANTY AND SUPPORT

For specific warranty details and customer support, please refer to the information provided at the point of purchase or contact Youme Power directly. It is recommended to retain your proof of purchase for any warranty claims.

If you have questions regarding the use, maintenance, or troubleshooting of your Youme Power LiPo battery, please reach out to the manufacturer's customer service for assistance.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

