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> AVID POWER 20V Battery for ACAP110D-Y Bundle with AC Charger User Manual

## AVID POWER ACAP110D-Y Battery and Charger

# AVID POWER 20V Battery for ACAP110D-Y Bundle with AC Charger User Manual

Model: ACAP110D-Y Battery and Charger

## IMPORTANT SAFETY INSTRUCTIONS

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Read all safety warnings and instructions before using the battery and charger. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- Always use the battery with compatible AVID POWER tools, specifically the ACAP110D-Y tire inflator.
- Do not charge the battery in damp or wet conditions.
- Do not store the battery in locations where the temperature may exceed 104°F (40°C).
- Do not incinerate the battery, even if it is severely damaged or completely dead. The battery can explode in a fire.
- Do not short-circuit the battery terminals.
- Do not disassemble the battery pack.
- Use only the specified charger for this battery. Using any other charger may create a risk of fire.
- Keep the battery and charger away from children.
- If battery fluid comes into contact with skin, wash immediately with soap and water. If it gets into eyes, flush with water for at least 15 minutes and seek medical attention.

## PRODUCT OVERVIEW

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The AVID POWER 20V 1.5Ah Li-ion battery and its accompanying charger are designed to power the ACAP110D-Y cordless tire inflator. The battery features an LED indicator for real-time capacity and charging status, along with multiple built-in protection systems.



Figure 1: AVID POWER 20V 1.5Ah Li-ion Battery. Note the "20V MAX LI-ION" label and the "Recharge every 3 months" warning.

## Battery Components

# DETAILS OF THE BATTERY

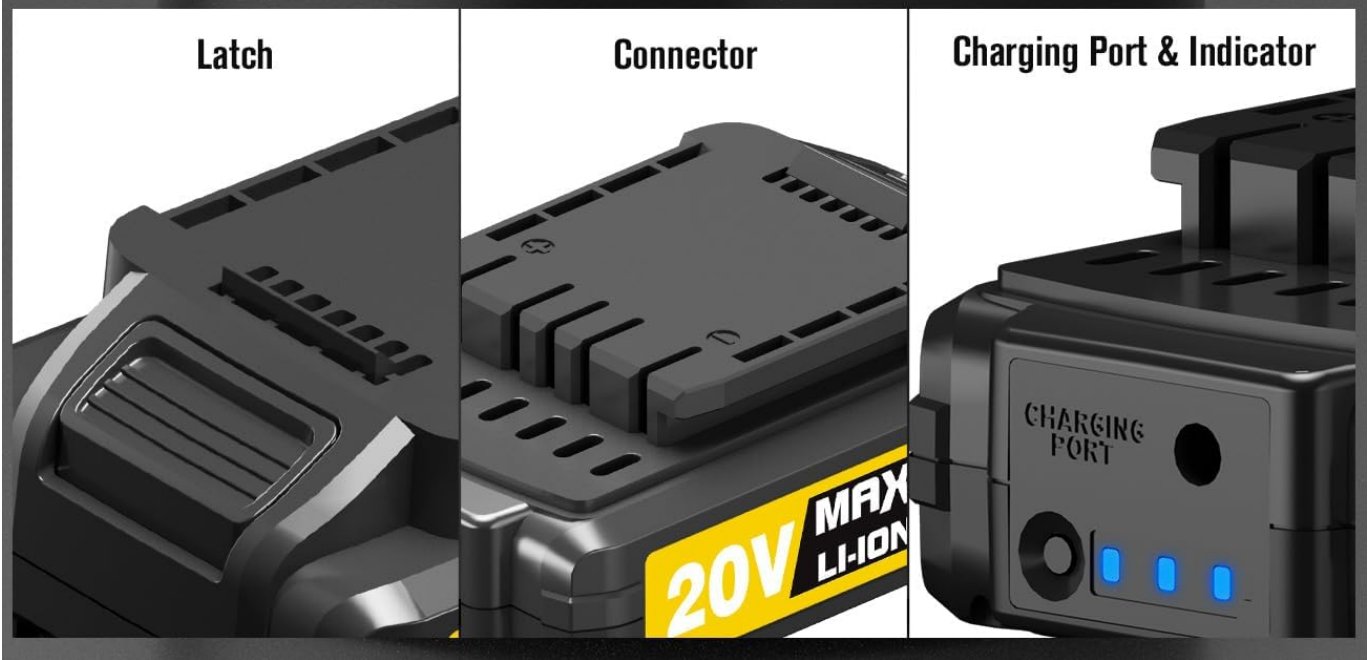
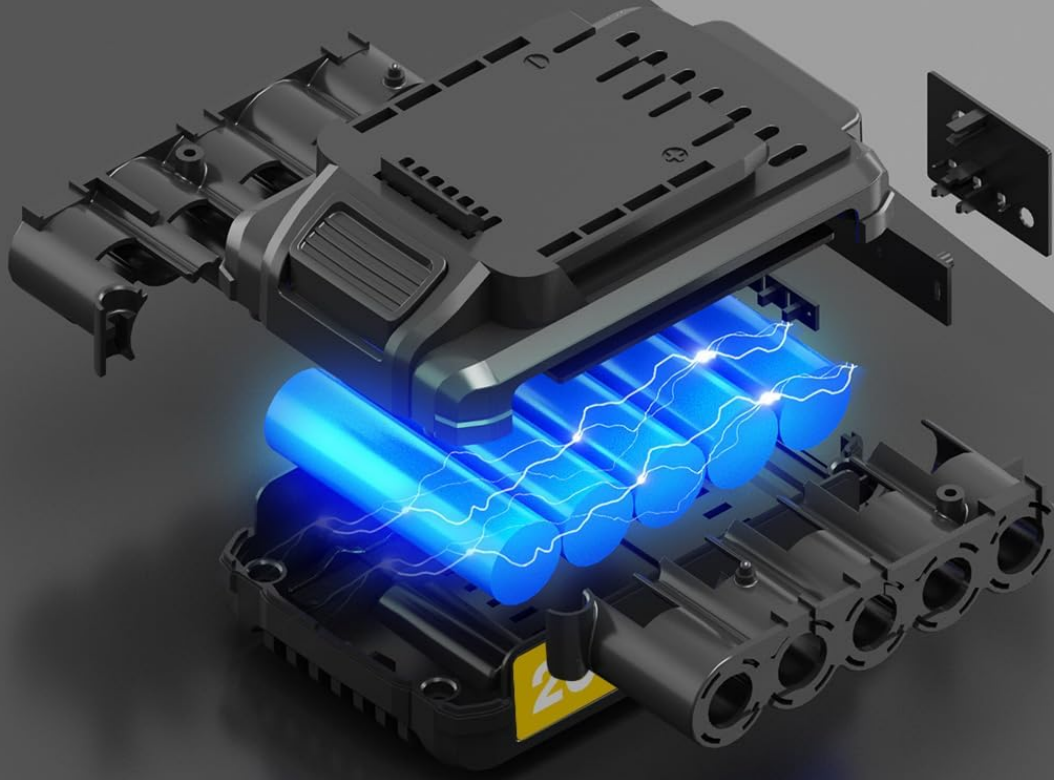


Figure 2: Detailed view of the battery showing the Latch, Connector, and Charging Port with LED Indicator lights.

- **Latch:** Used to secure the battery to the tool or charger and release it.
- **Connector:** Electrical contacts for power transfer.
- **Charging Port & Indicator:** Port for the charger plug and LED lights to show battery status.

## Built-in Protection Systems

# 1.5AH POWERFUL BATTERY



**Over-charge Protection**



**Over-heating Protection**



**Over-discharge Protection**



**Over-current Protection**



**Over-voltage Protection**



**Short circuit Protection**

Figure 3: Internal view of the battery highlighting its multiple protection features.

- **Over-charge Protection:** Prevents the battery from being charged beyond its capacity.
- **Over-heating Protection:** Monitors battery temperature to prevent damage from excessive heat.
- **Over-discharge Protection:** Prevents the battery from being fully depleted, extending its lifespan.
- **Over-current Protection:** Safeguards against excessive current flow.
- **Over-voltage Protection:** Protects against voltage spikes.
- **Short Circuit Protection:** Prevents damage from short circuits.

This AVID POWER 20V 1.5Ah Li-ion battery and its charger are **exclusively compatible** with the AVID POWER 20V cordless Yellow ACAP110D-Y Tire Inflator.

**It is NOT compatible with other AVID POWER battery-powered tools** such as other tire inflators, cordless drill/drivers, cordless blowers, or power saws. Using this battery or charger with incompatible tools may cause damage to the tool, battery, or charger, and could lead to personal injury.

# 20V RECHARGEABLE BATTERY PACK

Only Compatible with Avid Power ACAP110D-Y Tire Inflator



Figure 4: The 20V rechargeable battery pack shown with the compatible AVID POWER ACAP110D-Y Tire Inflator.

## SETUP AND CHARGING

Before first use, or after extended storage, fully charge the battery.

1. **Connect the Charger:** Plug the charger into a standard 120V AC electrical outlet.
2. **Connect Battery to Charger:** Insert the charger's output plug into the charging port on the battery pack. Ensure a secure connection.
3. **Charging Indicator:** The LED indicator lights on the battery will illuminate to show the charging status. A full charge typically takes 3-5 hours.
4. **Remove Battery:** Once fully charged, disconnect the charger from the battery and then from the power outlet.

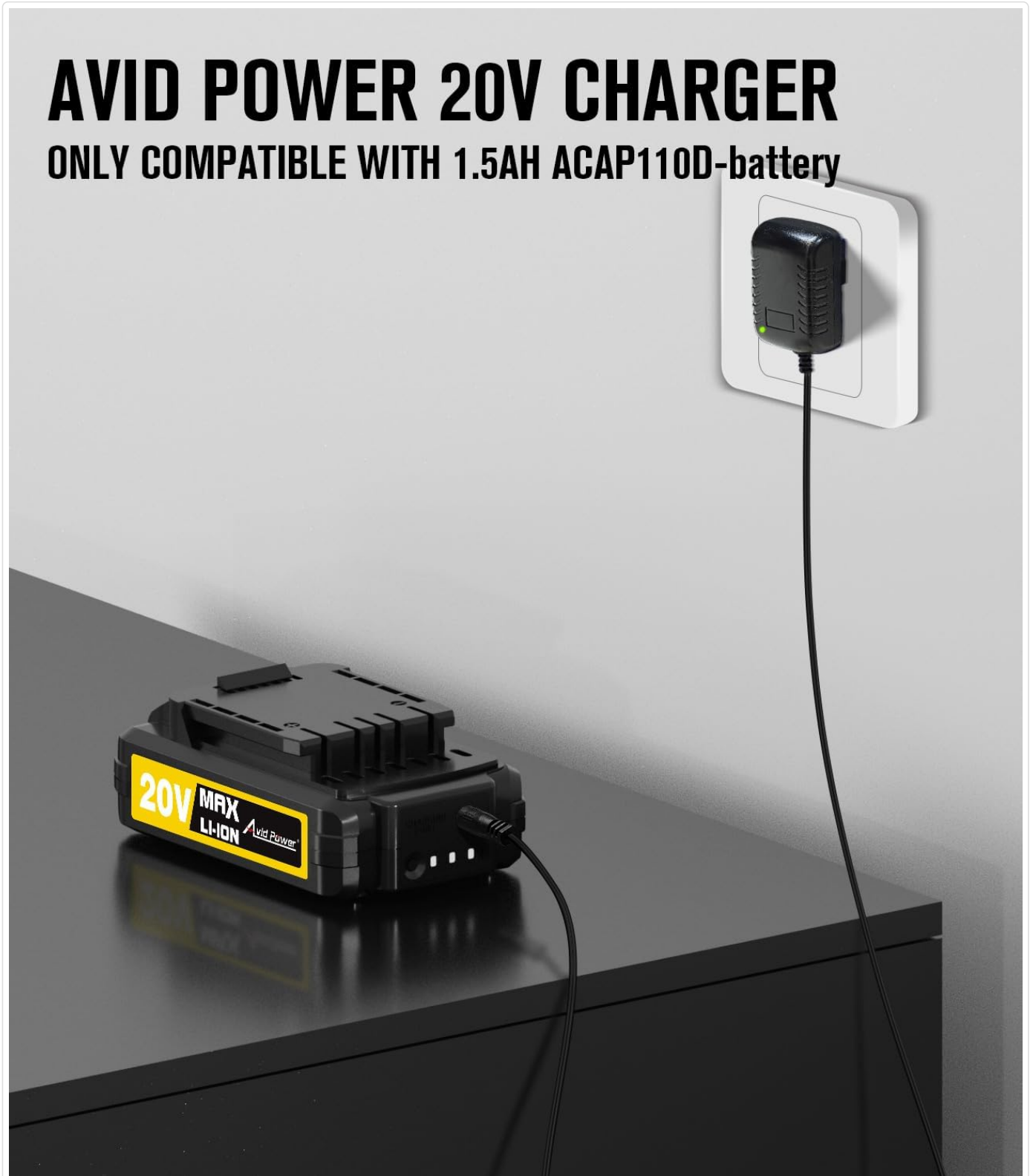
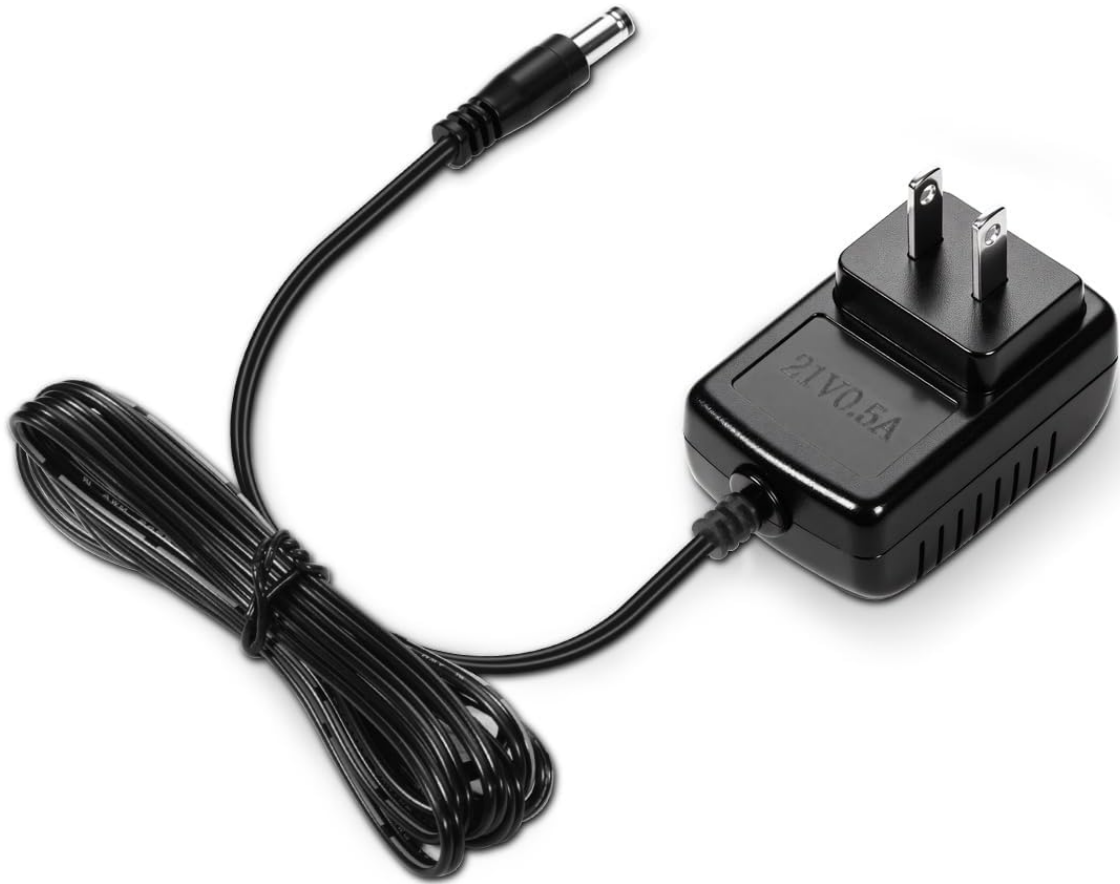


Figure 5: The AVID POWER 20V battery connected to its charger, which is plugged into a wall outlet, indicating the charging process.



**Over-current  
Protection**



**Over-voltage  
Protection**



**Short circuit  
Protection**

Figure 6: The AVID POWER 20V charger, featuring over-current, over-voltage, and short circuit protection.

*Note: The charger is included in this bundle.*

## OPERATING THE BATTERY

1. **Attaching to Tool:** Align the battery pack with the base of the compatible AVID POWER ACAP110D-Y tire inflator. Slide the battery onto the tool until it clicks securely into place.
2. **Removing from Tool:** To remove the battery, press the latch button(s) on the battery pack and slide the battery off the tool.
3. **Checking Battery Capacity:** The LED indicator lights on the battery show the real-time capacity.
  - Three lights: Full charge

- Two lights: Medium charge
- One light: Low charge, recharge soon
- No lights: Battery depleted, recharge immediately

## MAINTENANCE AND STORAGE

- **Regular Charging:** To extend battery life, fully charge the battery after each use.
- **Long-term Storage:** If storing the battery for an extended period, ensure it is fully charged every three months.
- **Storage Conditions:** Avoid storing batteries in cold places as low temperatures may cause them to fail. Store in a dry place, away from direct sunlight and extreme temperatures.
- **Cleaning:** Keep the battery terminals clean and free of debris. Use a dry cloth to wipe the battery and charger.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Battery not charging	<ul style="list-style-type: none"> <li>◦ Charger not properly connected.</li> <li>◦ Power outlet not active.</li> <li>◦ Battery or charger is damaged.</li> <li>◦ Battery temperature is too high or too low.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Ensure charger is securely plugged into battery and outlet.</li> <li>◦ Test outlet with another device.</li> <li>◦ Inspect battery and charger for visible damage. Do not use if damaged.</li> <li>◦ Allow battery to reach room temperature before charging.</li> </ul>
Battery not powering tool	<ul style="list-style-type: none"> <li>◦ Battery is not fully charged.</li> <li>◦ Battery is not securely attached to the tool.</li> <li>◦ Battery or tool is incompatible.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Charge the battery fully.</li> <li>◦ Ensure battery is clicked into place on the tool.</li> <li>◦ Verify that the battery is the correct model for the ACAP110D-Y tire inflator.</li> </ul>

## SPECIFICATIONS

Feature	Detail
Battery Type	Lithium-ion (Li-ion)
Voltage	20V MAX
Capacity	1.5 Ah
Charging Time	Approximately 3-5 hours (with included charger)
Compatibility	AVID POWER ACAP110D-Y Tire Inflator ONLY

## Dimensions



Figure 7: Battery Dimensions (approx. 4.72in L x 2.95in W x 1.73in H).

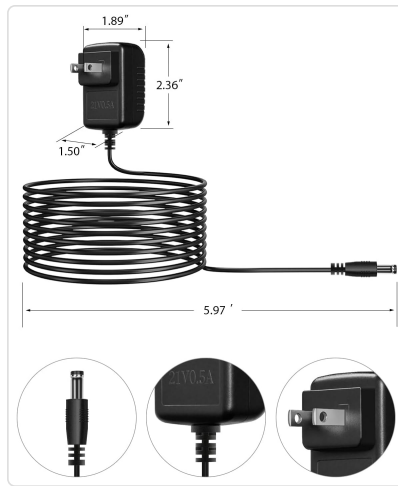


Figure 8: Charger Dimensions (approx. 2.36in H x 1.89in W x 1.50in D, with 5.97ft cord).

## WARRANTY AND SUPPORT

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Specific warranty information for this product is not provided in the available documentation. For warranty details, technical support, or service inquiries, please refer to the official AVID POWER website or contact their customer service directly.

Please retain your purchase receipt as proof of purchase for any warranty claims.