

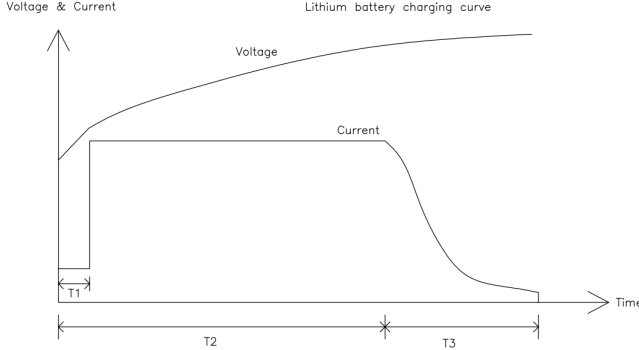
Specification & Instruction of Smart Charger CH-L74V3



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AA Portable Power Corp

Specification:

Feature	<ul style="list-style-type: none"> • Designed for 74V (20S) Lithium ion rechargeable battery with capacity $\geq 3\text{Ah}$ • Input Power: 100V - 240V AC, 50/60Hz, • Maximum input current: 5A • Output Power: 84V DC, 3A Max, 360W Max • Operating Temperature: -10°C - 45°C • Storage Temperature: -40°C - 75°C
LED Indicator	<ul style="list-style-type: none"> • LED always GREEN: Fully charged or not connected • LED flash BLUE: Battery is in charging mode • LED always RED: Charger under protection (Over temperature / Short Circuit / over voltage)
Safety Protection	<ul style="list-style-type: none"> • Over voltage Protection • Short Circuit Protection • Over temperature protection • No Reverse Polarity Protection • Note: Please connect AC power before connect to the battery
Charging Mode	<ul style="list-style-type: none"> • Pre-charge Stage (T1): When battery's voltage is lower than normal standard, the charger can't withstand large current charging. The charger will supply small current for charging, which has functions of activation, repair and extension of battery's life. When battery reaches normal voltage or charger reaches maximum T1 timing period, the charger will switch to fast charge mode automatically. • Fast Charge Stage (T2): Charger will charge the batteries with a constant flow. When the battery's voltage reached the set value, the charger will switch to Float Charge Stage automatically. • Float Charge Stage (T3): The charging current will reduce gradually. When the current drips to the set value, or at the T3 of the timing period, charger will turns off the output voltage automatically. Battery charging is complete. <div data-bbox="527 1396 1161 1743" style="text-align: center;"> <p>Voltage & Current Lithium battery charging curve</p>  <p>The graph illustrates the charging process. The y-axis represents Voltage and Current, and the x-axis represents Time. The Voltage curve (top) starts at a low level and rises to a plateau. The Current curve (bottom) starts at a low level, rises to a constant plateau during the T2 stage, and then gradually decays to zero during the T3 stage. The T1 stage is the initial pre-charge period.</p> </div>
Dimension(mm)	184 L x 96 W x 55 H
Weight	3lb 3.2Oz (1450g)



Caution:

- This charger is only for Indoor use.
- Reverse connect or short circuit are prohibited during charging.
- Avoid storing or operating the charger in highly humid place.
- Never cover the air vent, always leave at least 10cm space away from the vent.
- Do not cover the charger when the charger is operated. The ambient temperature shall not exceed 40 °C
- Do not charge the battery on the list below
Voltage < 74V, or Voltage > 74V
Capacity < 3.0Ah
- Completely plug the power cord into AC power resource
Do not expose any metal part of the power cord during operation
Do not use your hand or any of your body to touch the metal part of the power when you connect the power to the charger
- Do not disassembly the charger any time.
- AA Portable Power is not responsible for any damage caused by any misuse

Operation Steps:

1. First, turn off the Power Switch on the charger
2. Connect the battery to charger, positive to positive, negative to negative
3. Plug in AC Power cord into the AC power resource
4. Turn on Power Switch on the charger
5. The charger begins to working. The charging time is variable depends on the batteries.
6. After battery fully charged, LED always GREEN, disconnect AC Power Cord
7. Disconnect battery and charger

Trouble Shooting:

Failure Mode	Troubleshooting Methods
LED is not on	<ol style="list-style-type: none">a. Input connectors must be connected firmlyb. Open Power Switch
Charger is not charging, and the LED is always GREEN	<ol style="list-style-type: none">a. Output connectors must be connected firmlyb. Battery failure or damage, replace the battery
Charger is not charging, and the LED is always RED	<ol style="list-style-type: none">a. Make sure the output polarity is rightb. Battery voltage is too high and cannot match the battery charger.
Battery is not fully charged	<ol style="list-style-type: none">a. Output connectors must be connected firmlyb. Output wire cannot be too longc. Battery failure or damage, replace the battery