



Specialized Fire Products

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# User Instructions

Solo727 Mk2 Battery Charger  
Solo770 Mk1 and Mk2 Battery Batons  
Solo760 Battery Baton

[www.sdfire.com](http://www.sdfire.com)

## Important Information

IMPORTANT SAFETY INSTRUCTIONS.

DANGER – TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

## Identification:

**Chargers:** Solo727 Mk2 chargers can be identified from earlier Solo727 chargers from the labeling on the product.

Solo727 Mk1 Charger for Solo770 3Ah Battery Batons only.

Front Label



Rear Label



Solo727 Mk2 Charger for Solo760 2.2Ah and Solo770 3.0Ah Battery Batons.

Front Label



Rear Label



**WARNING:** Never connect AC and DC power at the same time.

- Connect battery to the charger. The LED will flash from red to green for approximately 5 minutes (Mk1) or 3 seconds (Mk2) while the battery status is checked
- The LED will then turn solid red to indicate fast charging, unless the battery is fully charged, in which case it may go directly to green (ready for use)
- After fast charging is complete (90 minutes for a fully discharged battery), the charge is automatically converted into a trickle charge and the LED turns green (ready for use)
- The battery charger and battery can remain connected under a trickle charge for several hours without damage to the battery. This maintains the battery in a fully charged state, ready for use

**NOTE:** If battery is not to be used for some time (i.e. within the next day), it is advisable to unplug the charger from the power supply, and the battery from the charger.

- To stop charging disconnect the power plug before removing the battery from the charger
- Battery errors:

**A. Red Flashing LED** – Battery has developed a permanent fault and must be replaced. This test may take up to 1 minute.

**B. Double Red Flashing LED (Mk2 Only)** – Battery is either over temperature (will cut out at +55°C / 131°F) or under temperature (colder than -5°C / 23°F), which has caused the charger to stop charging. Disconnect the battery and either let it cool to below +50°C / 122°F or to warm up to above 0°C / 32°F. Charging can then be re-started.

## General Information

- As with all rechargeable batteries, after a few hundred cycles of normal use your battery will eventually reach the end of its useable life and will hold less charge or not charge properly. At this point it is recommended that a replacement battery is purchased
- Whenever possible, discharge the battery fully before charging - this will ensure the longest possible battery life

**Battery Batons:** The Mk2 Solo770 battery contains a thermistor that allows the internal temperature to be monitored by the Mk2 Solo727 charger. This is noted on the battery label, and is used to differentiate Mk1 and Mk2 batteries. Both Mk1 and Mk2 Battery Batons have a red ring round the connector, whereas the Solo760 is all black.



## Power

The Solo727 MK2 Battery Charger will charge Solo760 or Solo770 battery batons, using either nominal 110/240VAC power outlet or 12VDC in-vehicle power. A fully depleted battery will be charged in 60-90 minutes.

- Batteries leave the manufacturer fully charged. Depending on the length of their subsequent storage, they may require recharging before first use
- For optimum battery life, it is recommended that the battery is fully charged before first use, then used until completely discharged. Repeat this process for the first few uses

## Operation

- Connect the charger to a 100/240V 50/60Hz power outlet using the power cord supplied (or equivalent for UL countries\*) or to a 12VDC power socket in a car/van using the DC connecting lead



\*Detachable Power Supply Cord – Listed (ELBZ17), Type SPT-2, 18 AWG, two conductors, rated 300 V, 60°C, cord external length minimum 0.91 m and maximum 3 m. One end terminates in a molded-on attachment plug with NEMA 1-15P or NEMA 2-15P configuration. Other end terminates in a molded-on connector which mates with the appliance inlet.

**WARNING:** The battery and charger may become warm during normal use. Always allow adequate ventilation around the equipment and use care when handling.

## CAUTION:

- Store the charger in a dry place (indoor use only when connected to AC mains). Danger of fire and electric shock!
- Do not fast-charge a hot battery, allow the battery to cool down naturally before starting a charge cycle
- Allow the charger to cool down for at least 15 minutes after one fast charge
- The charger will stop charging the Solo770 Mk2 battery (with thermistor) if it becomes too hot during charging (>55°C / 131°F).
- Do not cover battery or charger, or expose to external heat during operation
- Do not leave unattended whilst charging.
- Only clean with a dry cloth
- Do not attempt to open the charger. No user serviceable parts.
- Do not use on a flammable surface
- Batteries and chargers must be stored and used in accordance with stated environmental conditions below:

### Solo727 Charger:

Operating temperature: 0°C to +35°C / 32°F to 95°F  
Storage temperature: -10°C to 50°C / 14°F to 120°F  
Storage humidity: 0-90% RH non-condensing

### Solo760 and Solo770 Battery Batons

Operating temperature: 10°C to 35°C / 50°F to 95°F  
Discharge temperature: -10°C to 45°C / 14°F to 113°F  
Storage temperature: -10°C to 50°C / 14°F to 120°F  
Storage humidity: 0-90% RH non-condensing

## Attention

This charger is designed for charging Solo760 and Solo770 NiMH Battery Batons only. Do not connect other types of batteries. Danger of explosion.

## Environment

Solo products should be disposed of at a recognized recycling center in line with local regulations, or can be returned to No Climb Products Ltd. for disposal.