



SC Power Cube Lithium Battery

Additional information concerning important procedures and features of the battery.

Read all the instruction in this manual before installation, operation, transportation, storage and maintenance of your SC Power Cube.

1) Safety:

- ✗ DO NOT throw in garbage.
- ✗ DO NOT dispose in fire.
- ✓ Use personal protective equipment when working with batteries.
- ✓ Use special charger for SC Power Cube Lithium battery.
- ✓ This product must be recycled and is made up of recycled materials.



DO NOT DISASSEMBLE OR MODIFY THE BATTERY! IF THE BATTERY HOUSING IS DAMANAGED, DO NOT TOUCH EXPOSED CONTENTS!

2) DO's:

- ✓ Do protect terminals from short circuit before, during and after installation.
- ✓ Do wear electrically insulated gloves and use electrically insulated tools.
- ✓ DO wear eye protection and safety toe boots/shoes
- ✓ Do handle battery carefully and secure battery safety.

3) DON'TS:

- ✗ Do not operate or store battery outside of operating limits.
- ✗ Do not short circuit battery.
- ✗ Do not wear rings, watches, bracelets or necklaces when handling or working near battery.
- ✗ Do not knock, drop, puncture or crush battery.
- ✗ Do not expose battery to flames, incinerate or direct sunlight.
- ✗ Do not open battery case or disassemble battery.
- ✗ Do not lift battery by the terminal cables
- ✗ Do not vibrate battery
- ✗ Do not expose battery to water or other fluids.
- ✗ Do not connect with other types of batteries.
- ✗ Do not expose battery to high temperatures.

4) OPERATING:

Charge Temperature (Min/Max)	0 °C – 45 °C
Discharge Temperature (Min/Max)	-20 °C – 60 °C
Humidity	10% -90% RH

5) STORAGE:

Systems should be stored out of direct sunlight under the following temperature conditions.

Storage Temperature (Min/Max)	-20 °C +45 °C
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Systems should be put into storage at 60%-80% state of charge and the voltage checked every 3 months and recharge every 6 months if the battery is not in use for a long period of time.

NEVER attempt to charge a battery without first reviewing and understanding the instructions of the charger being used.

6) **CHARGING:**

- ✓ Your NXT is equipped with a smart onboard charger.
- ✓ Charge your NXT after every use.
- ✓ The charger will automatically terminate charging when the battery pack is fully charged.
- ✓ You can leave your charger cord plugged in for daily use.
- ✓ For extended periods of storage, be sure you unplug your charger cord.



RECOMMENDED CHARGING CURRENT IS 0.5C, MAX. 1.0C

7) **DISCHARGING:**

- * Do not discharge battery below operating voltage.
- * Do not discharge battery at rates greater than maximum continuous current.
- * Do not operate in conditions that will exceed the internal operating temperatures of the battery.

8) **PROTECTION AND FAULTS:**

In the event of a fault, the battery protection circuit will disconnect the negative battery terminals from the internal cells.

The battery uses a solid-state relay and pre-cautions should be taken to reduce voltage spikes.

<u>Over Voltage Fault</u>	<u>3.9±0.025V</u>
<u>Over Voltage Recovery</u>	<u>3.8±0.050V</u>
<u>Low Voltage Fault</u>	<u>2.0±0.050V</u>
<u>Low Voltage Recovery</u>	<u>2.300±0.10V</u>

9) **SERVICE AND MAINTENANCE:**

Batteries should be carefully inspected on a regular basis in order to detect and correct potential problems. This routine should be started when the batteries are first received.

