

# Frequently Asked Questions (Q&A)

## How do I power the robotic arm when it is mounted on a mobile chassis?

The robotic arm operates within a voltage range of **9–12.6V**.

It can be powered using a **3S lithium battery pack** that meets the required power rating.

A 3S Li-ion pack consists of **three lithium cells in series (Series)**:

- Nominal voltage per cell: **3.7V**
- Nominal voltage of 3S pack: **11.1V**
- Fully charged voltage: **12.6V** (4.2V per cell)
- Discharge cutoff voltage: **9V** (3.0V per cell)

Ensure your battery and power system can handle the peak current of the robotic arm.

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## The robotic arm moves unusually slowly when controlled via the Web Application

Check for **bus communication interruptions**.

The system contains **four servos + one TTL Node (A) board** — a total of five devices that must maintain stable bus communication.

If any device drops offline or cannot be pinged, communication may become blocked, causing certain movements to behave unusually slowly.