

# Powering an Arduino

## How to power an Arduino

Here is some resources about powering Arduino or other electronic projects:

### General

How to power an Arduino: **[More information here.](#)**

How to power a project:

**[More information here.](#)**

What Adapter:

**[More information here.](#)**

### Portable / Battery powered

For portable projects some info on battery usage.

1. **[How to power your Arduino with battery](#)**
2. **[How to choose your battery](#)**
3. **[Indepth Arduino powering guide](#)**
4. **[Why 9V batteries are bad](#)**

### Power Banks

Not all power banks are good for microcontrollers as they mostly have a safety feature which is auto-off when consumption is low. Microcontrollers often have a low-current consumption and the power bank will auto-off every a few minutes. However, there are some power banks that can support low-current charging mode/ always-on mode. These will be suitable for powering a microcontroller, e.g. *Sandberg Powerbank 20000 PD65W 2xQC3.0*. (We only tested this one, but other brands and models can do the same.)

### Motors

There are many different types of motors available. Before deciding how to power your motor, you must know what **voltage** the motor is going to use and how much **current** your motor will need.

1. Guide for powering motors with Raspberry Pi: **[here.](#)**
2. Guide for Adafruit Motor Shield with Arduino: **[here.](#)**

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