# Raspberry Pi UPS Quick Start Guide

## Safety First

1. Battery powered devices are a serious fire hazard, never use damaged batteries or leave devices unattended.

2. Use protected battery packs from reputable sources. Protected meaning equipped with protection circuits for over current, over voltage and other fault conditions. Lithium packs should rated for at least 4.2V charging. The battery pack voltage should not exceed 5V.

3. Never connect both AA batteries and a battery pack at the same time. Either use two AA cells or a battery pack, but not both at the same time.

4. When inserting AA batteries, please mind the polarity.

5. AA cells should be either NIMH or Alkaline type. If using Alkaline, please disable the battery charger function in the software. See *-battery_type* command description for details.

## Quick Start Guide

1. Turn off the Raspberry Pi and disconnect power.

2. Connect the UPS to the Raspberry Pi with the supplied hardware.

3. Connect either two AA batteries or a battery pack. **Not both at the same time.**

4. Connect USB power to the UPS, **not to the Raspberry Pi**.

5. Connect any cables such as LAN, HDMI

6. Press and hold the push button until the UPS turns on.

7. After the Raspberry Pi boots up install the UPS software. See Software Install section below.

8. Setup the battery type using the *-battery_type <LITHIUM/NIMH/ALKALINE>* command

9. Enable/disable the battery charger with the *-charger_<on/off>* command depending on the battery type.

## Software Install

1. Download software from the product page(www.rpigear.com/ups), copy it to any folder on the Raspberry Pi. While on the website, also download the user manual.

2. Unzip the .zip file, for example *sudo unzip <file_name>*

3. Go into the unzipped install directory, *cd ups_linux_1.2/install*

4. Make install.sh executable with *sudo chmod 777 install.sh*

5. Run *sudo ./install.sh -install*

6. Run *ups.sh -board_info* to read the board information and verify access

7. Run *ups.sh -help* to see a full list of commands

8. The .zip file and unzipped folder are not used any more, feel free to delete them.