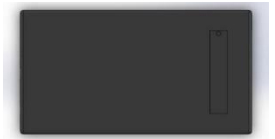# Automated Power Backup Instructions

Introduction

This device can be used to give power backup for 5v, and 12v Wi-Fi routers. The device's primary goal is to automatically switch from AC power to DC power so that Wi-Fi routers may get power continuously. This device will show the remaining battery percentage of the power backup. The design can be upgraded to give power to emergency lamps, and it can also be used to charge mobile phones.

Package content

- 5V/ 12V voltage-regulated power backup
- USB out
- Battery Level Indicator

back view   top view
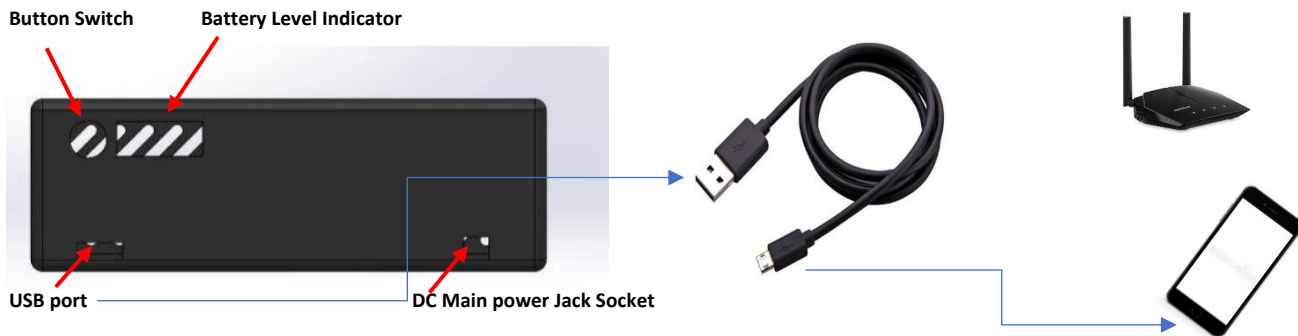
Voltage Regulation

whatever the input is given to this device, the output of this block is going to be either 5V or 12V. Then the 12V out will be directed to power up the routers, and 5v is taken out for the USB out and for the LED strip.

Battery Level Indicator

The module indicates a voltage level such as for monitoring a DC battery level. The module can be powered off a wide voltage range of 3.5 to 16V. There is a 4-pin header on the assembly for making connections. The display consists of 5 LEDs – 3 green, 1 yellow, and 1 red which are lit in sequence as the input voltage increases.

Button Switch   **Battery Level Indicator**

USB port   **DC Main power Jack Socket**

Warnings

- Keep power backup away from heat sources, direct sunlight, humidity, water, or other liquid.
- Do not use the power backup with wet hands.
- Keep the power backup ports free from dust, which may prevent proper connection.
- Power backup is not a toy. Keep out of reach of children.

WARNING