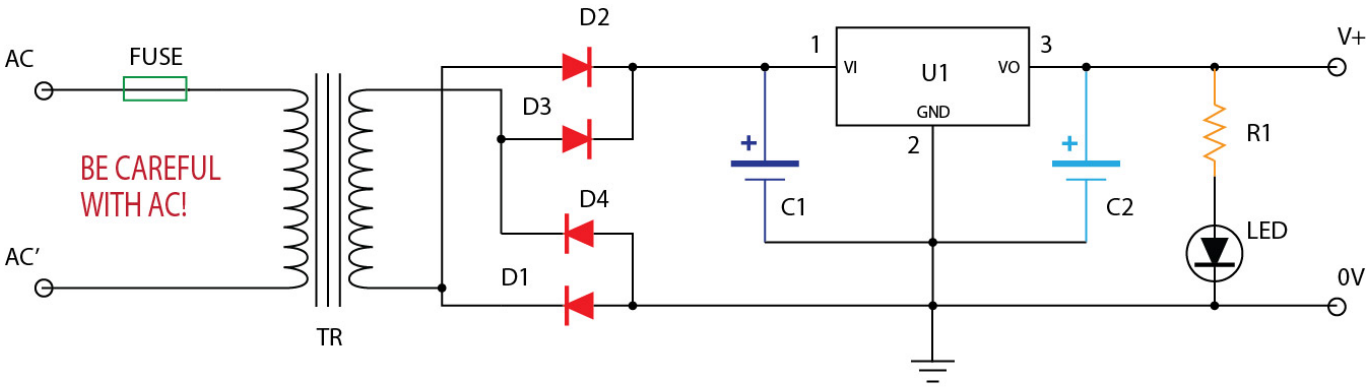
# Power Supplies

Find Here some schematics for DIY Power Supplies. It could help to power your midibox !

**Be Aware of high voltages! - Stay Safe !**

## +5V DC / +9V DC / +12V DC




5V-9V-12V DC Regulated Power Supply - Current output : 1A

### 5V Parts List

| Description | Type | Qty | Designation |
|---|---|---|---|
| LM7805 | VR | 1 | U1 |
| 1N4007 | Diode | 4 | D1,D2,D3,D4 |
| 220 | Resistor | 1 | R1 |
| 22µF/25V | Capa Elec | 1 | C2 |
| 2200µF/40V | Capa Elec | 1 | C1 |
| 9VDC 15VA | Transfo | 1 | TR |

### 9V Option

Replace:

- U1 > LM7809
- TR out> 12VDC
- R1 > 390ohms

### 12V Option

Replace:

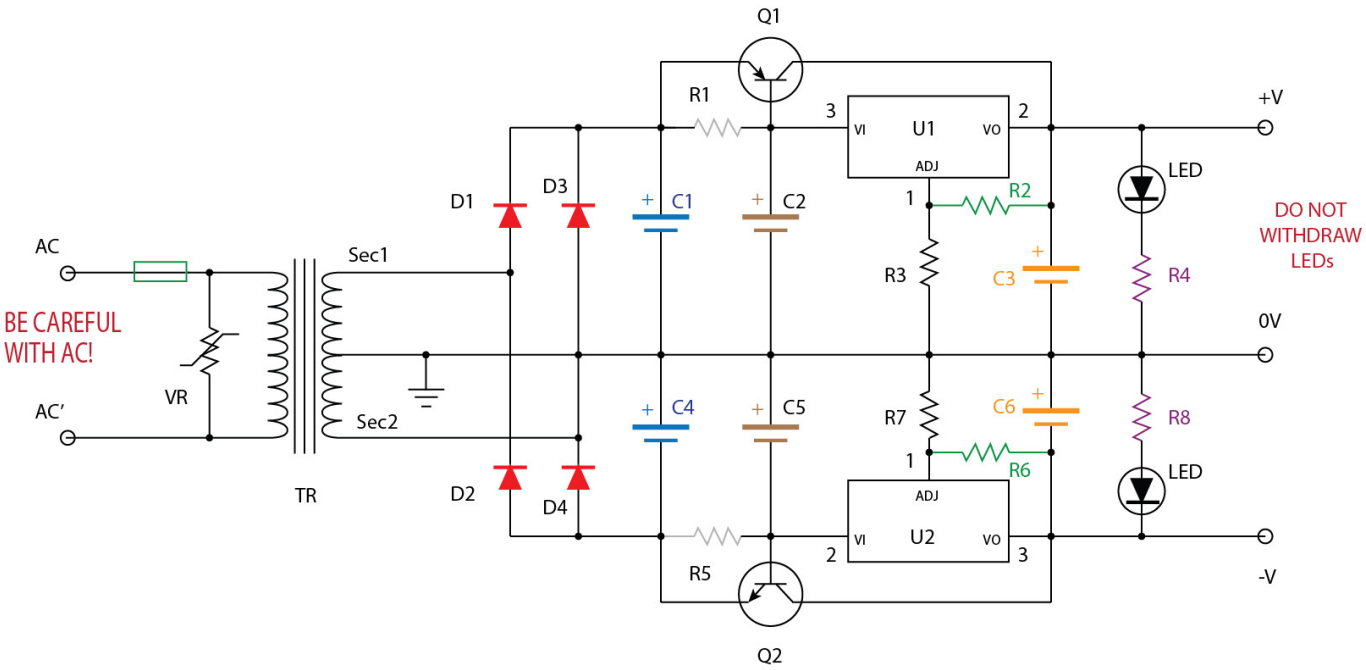
- U1 > **LM7812**

- TR out> 12VDC
- R1 > **510ohms**

## -12V/+12V DC

A designed has been purposed There

## -15V/+15V DC




+15/-15V Bipolar Regulated Power Supply - Current output : 4A

### Parts List

| Description | Type | Qty | Designation |
|---|---|---|---|
| LM317T | VR | 1 | U1 |
| LM337T | VR | 1 | U2 |
| BDX54 | PNP | 1 | Q1 |
| BDX53 | NPN | 1 | Q2 |
| 10A04 | Diode | 4 | D1,D2,D3,D4 |
| 10 | Resistor | 2 | R1,R5 |
| 120 | Resistor | 2 | R2,R6 |
| 820 | Resistor | 2 | R4,R8 |
| 1320(1,1k+220) | Resistor | 2 | R3,R7 |
| 1µF/25V | Capa Elec | 2 | C2,C5 |
| 22µF/25V | Capa Elec | 2 | C3,C6 |
| 10000µF/40V | Capa Elec | 2 | C1,C4 |
| S05K400 | Varistor | 1 | VR |

| Description | Type | Qty | Designation |
|---|---|---|---|
| 15VDCx2 90VA | Transfo | 1 | TR |

For Fine Voltage Tuning replace R3/R7 by a 2K Multi turns Trimpot.

## Forum Threads

- Compact PSU by Altitude

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