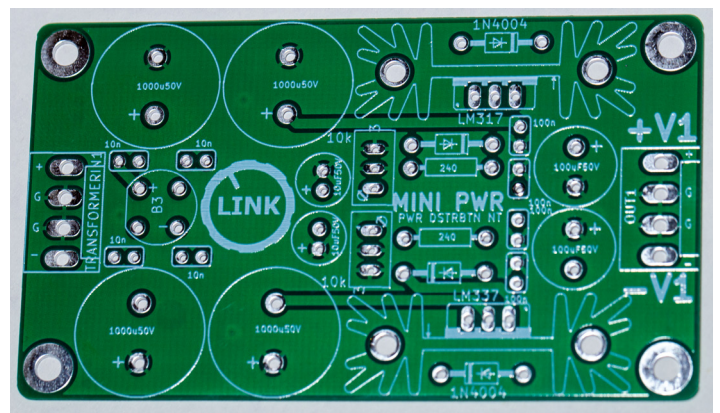
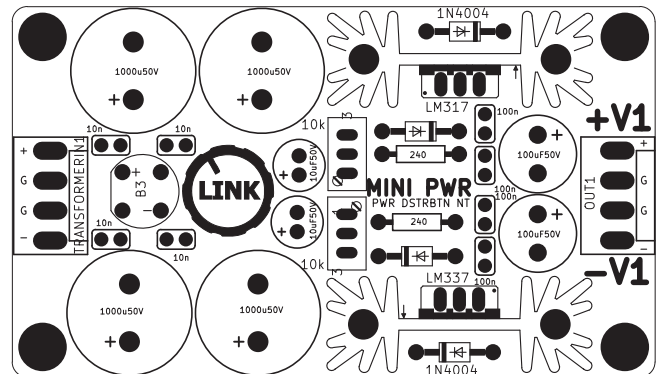


# MINI PWR

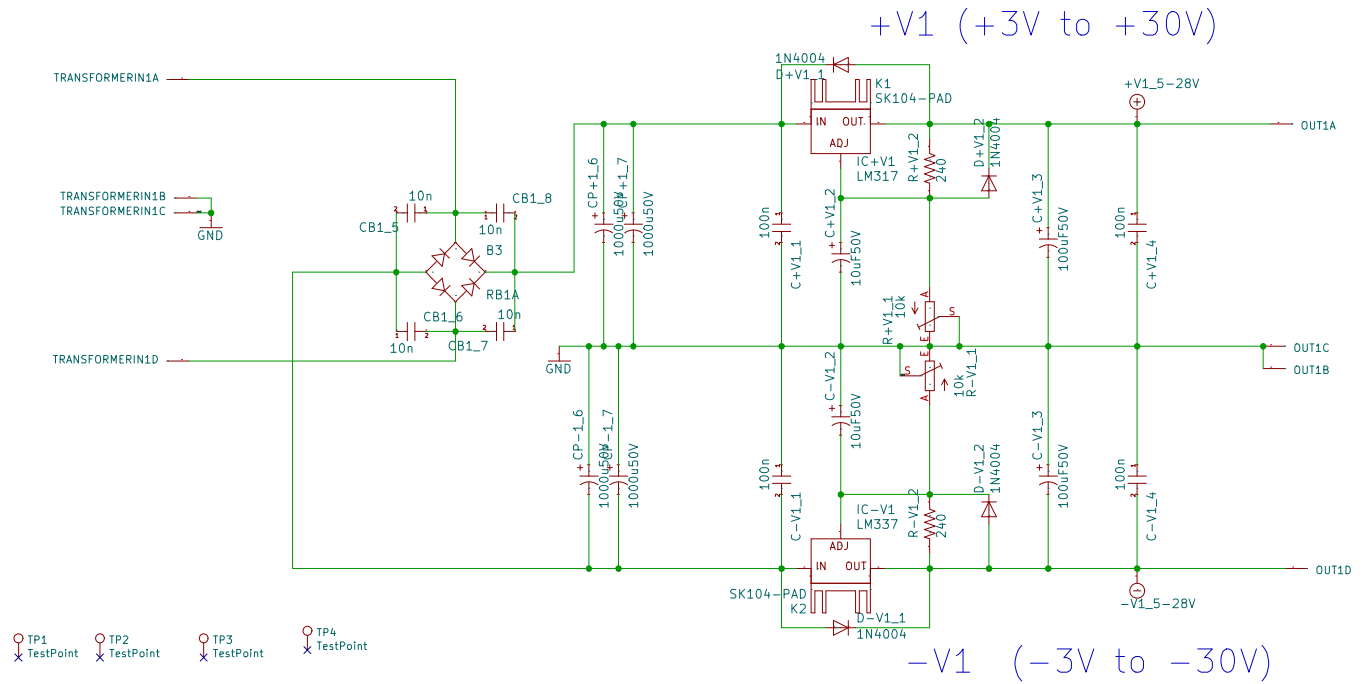
Let me introduce this Mini Project. It's basically a small POWER SUPPLY. MINI PWR can supply 1x 1A positive power rails and 1 x 1A negative power rails. Fits inside a one unit high rack cases. You can run it with one Transformer and make a stable Power from +/-3V to +/-30V. The Project is intended to supply many small Projects. If you plan to power up to 1A each rail, I suggest a different Heatsink solution, cause the Onboard Cooling will be not enough. We have designed this Project in Business Card Format 85x55mm. In this Sheet you get Schematic, BOM and Overlay. This Guide will help with setting up this nice Power Supply. Have Fun!

## PCB layout for reference



**DISCLAIMER:** Proceed at your own risk. I am not liable for any damage, harm or loss of any kind resulting from the assembly and/or use of this PCB set. Safety provisions should always be exercised whenever working with any electronics. The following instructions are guidelines only. I can make no guarantee of the accuracy of contents contained within this document.

# Schematics



## Bill of Materials (BOM)

#	PART NAME	TYPE OF PART	COUNT	VALUE
1	R+V1_2,R-V1_2	Resistor	2	240R
2	IC+V1	Regulator	1	LM317
3	IC-V1	Regulator	1	LM337
4	CB1_5,CB1_6,CB1_7,CB1_8	Capacitor 2,5mm	4	10n
5	C-V1_4,C+V1_4,C+V1_1,C-V1_1	Capacitor 2,5mm	4	100n
6	C-V1_2,C+V1_2	Electrolytic	2	10uF50V
7	C+V1_3,C-V1_3	Electrolytic	2	100uF50V
8	CP+1_6,CP-1_6,CP+1_7,CP-1_7	Electrolytic	4	1000u50V
9	D+V1_1,D+V1_2,D-V1_1,D-V1_2	Diode	4	1N4004
10	TRANSFORMERIN1,OUT1	Connector	2	KK-156-4
11	B3	Round Bridge Rectifier	1	RB1A
12	R+V1_1,R-V1_1	S64W Trimmer	2	10k
13	K2,K1	Heatsink	2	SK104-PAD