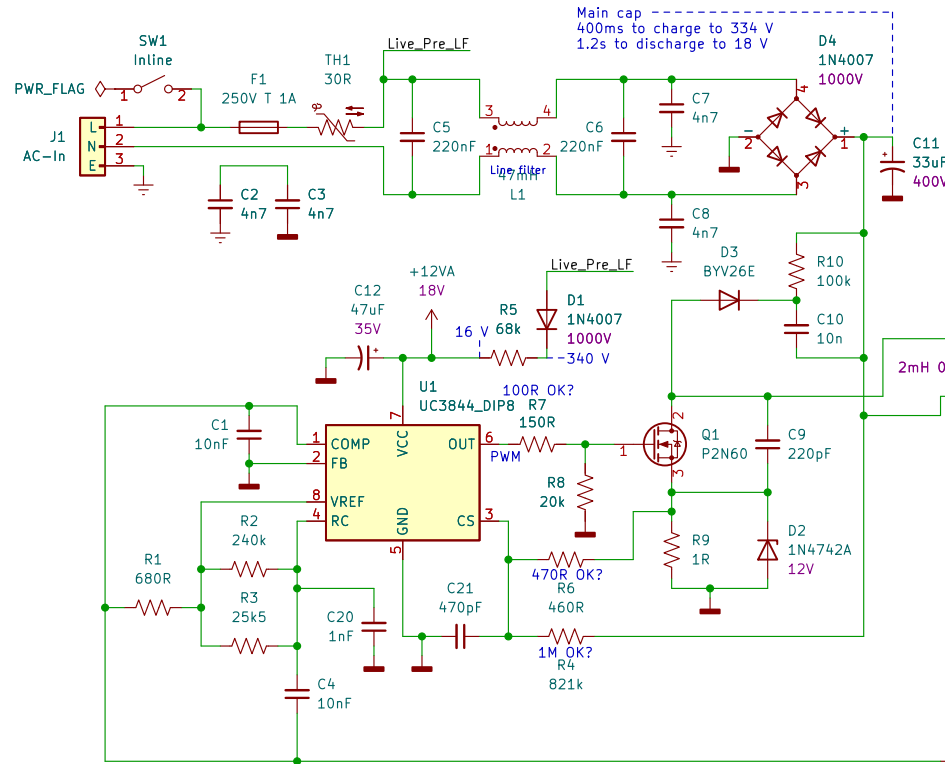
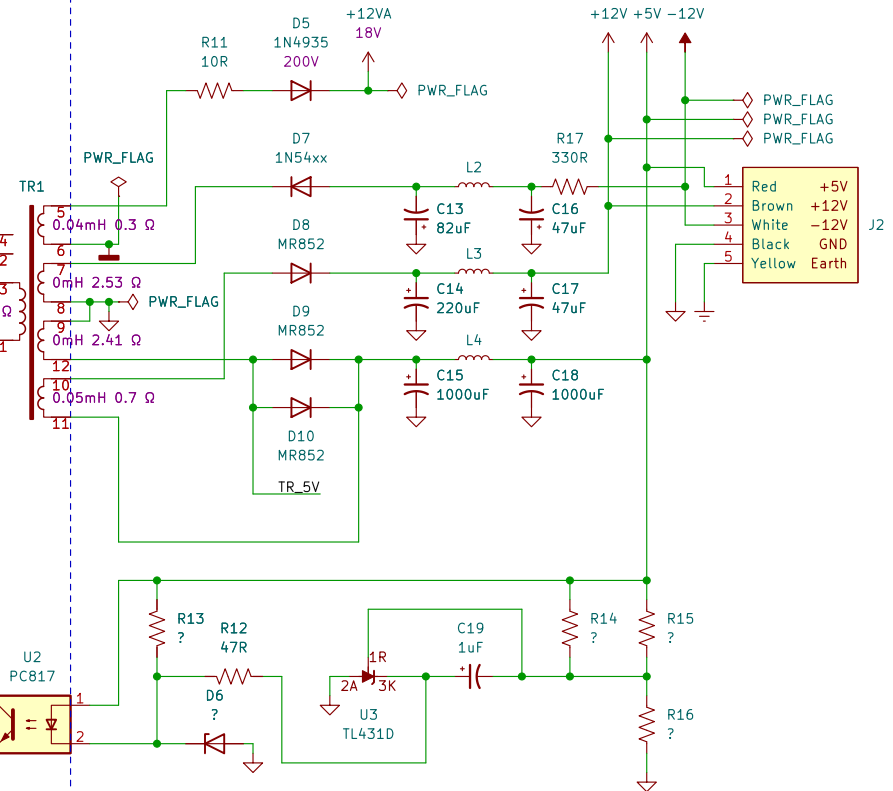


## AC/DC line voltage



## DC stepped down



Test of known good working PSU  
AC current measurements under load  
Tested on 240 VAC with dim bulb limiter  
Ticking sound under no load is normal

5 VDC	12 VDC	240 VAC
0.00 A 4.90 V	0 mA 16.00 V	31 mA
0.00 A 5.10 V	70 mA 10.96 V	37 mA
1.00 A 4.99 V	70 mA 11.89 V	68 mA
1.45 A 4.93 V	70 mA 12.10 V	97 mA
3.00 A 4.70 V	70 mA 12.60 V	180 mA

Test of known good working UC3844 PWM IC  
Pin 6 (OUT)  
Load on 5V output

I (5 V)	Duty	Period	V max
0 mA	7.0%	276 ms	18.0 V
28 mA	4.0%	25 us	12.2 V
1.0 A	9.5%	25 us	14.8 V
3.0 A	15.0%	25 us	16.4 V
6.0 A	20.0%	25 us	19.0 V

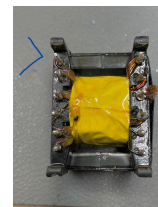
UC3844  
Broken: p5-6 2 ohm  
Working: p5-6 16M ohm

- 5 V constant after 600 ms
- 0 V
- 1 V pulse after 1 s
- 3 V 69 kHz (15 us) signal after 600 ms
- 0 V
- 13 V PWM
- 16 V linear charge over 600 ms, drops to 11 V
- 5.4 V after 600 ms

P2N60 alternatives

GDS  
600 V 2.9 A 70 W  
RDS(on) < 3.5 ohm  
Vgs +/- 20 V

STP4NK60Z (4 A)  
STP5NK60Z (5 A)  
IRFBC30PBF (3.6A)



P-No: 391029-02  
Board: 30501-001 A  
Rating: UK 220-240 V 300 mA  
Based on the A500 PSU schematic by Greg McCarthy  
**Nick Bolton**

Sheet: /  
File: a1200-psu.kicad\_sch

**Title: Amiga A1200 PSU (UK)**

Size: A4 Date: 2023-02-11

KiCad E.D.A. kicad (6.0.7-1)-1

Rev: 1G

Id: 1/1