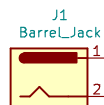


1) 12VAC Input  
Pin 2 will act as our "ground"



2) Isolating the AC into DC half-waves (half-wave rectifiers)

3) Varying amounts of decoupling capacitors. Smaller values closer to regulators

Syntherjack uses 1x 4700uF,  
AI Synthesis uses 3 x 3300 uF  
FrequencyCentral uses 3x4700uF 25V

4) Voltage regulators

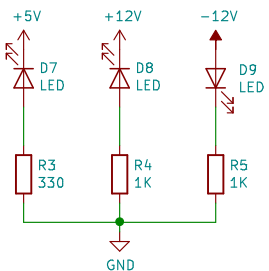
Syntherjack uses 7812/7912,  
AI Synthesis uses 7812/LM7912

Both guides suggest Tantalum for C7-10, AI Synthesis chooses Electrolytic for reliability and ease of use  
Also suggested for C12,14 by datasheet

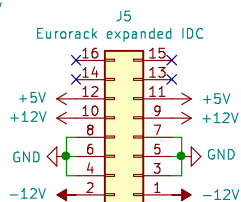
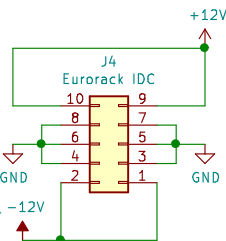
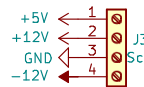
Not sure what stuff needs to go here - minimum load, output decoupling

5) LED status section :

Syntherjack uses the following - series resistors need to be calculated to limit current  
AI Synthesis uses no series LED resistors but has 2.4K in parallel



6) Output section



<https://www.tindie.com/products/dhailant/mini-dual-power-supply/>  
<https://syntherjack.net/modular-synth-wall-wart-psu/>  
<https://aisynthesis.com/diy-eurorack-power-supply-build-guide/>  
<https://frequencycentral.co.uk/product/fc-power/>

Sheet: /  
File: Euro\_PSU.sch

**Title: Eurorack PSU**

Size: A4 Date: / /  
KiCad E.D.A. kicad 5.1.5-52549c584ubuntu18.04.1

Rev: 1  
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