



Eurorack PSU v1.0 For +-12v and +5v Models March, 2018

Eurorack Power Supply Unit Manual V1

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1. General Description and Operation

This is a best in class 4.5A Power Supply System with built in Noise Filtering Distribution board, provides an extremely quiet case power supply solution for any Eurorack system. The completely shielded power supply provides up to 40W at the output, while producing very little additional heat to your system. It is safe, clean, and also very quiet. This power supply is capable of powering both small and large Eurorack systems. On board capacitive filtering ensures that even the most demanding modules are supplied with safe, clean power. Your unit will provide +-12V via one SMPS component. +5V rail is available as an additional feature through an additional SMPS component.

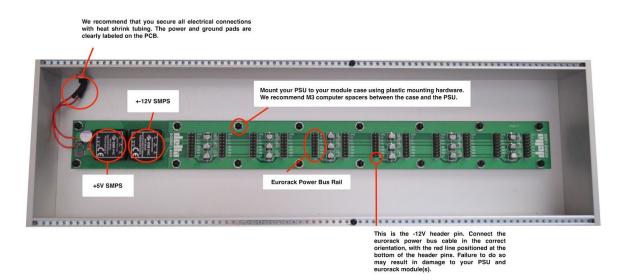
2. Features

- Advanced low-noise, fully regulated voltage converters on each rail.
- Over-current protection, over-heat protection and short-circuit protection.
- The most extensive noise filtering on the market: Noise filtering is included with capacitors between every pair of outputs. This helps to minimize both power line noise and module to module noise.
- Twelve 16-pin universal direction Eurorack power connections.
- Protective aluminium heat sinking cover place over the converters.
- Sixteen individual mounting holes; ensures that the unit can be fixed securely in any Eurorack system.
- Fits within any 84HP case or larger.

3. Unit Specification

- FCC, CE and RoHS Certified
- Dimensions: 15.748" x 1.5748" (40 x 4cm)
- Output current: +12V@1250mA, -12V@1250mA
- Line regulation: +/- 0.5% (max)
- Load regulation: +/- 1.0% (max)
- Ripple and noise: 100mVp-p (max) 30mVp-p (typical)
- Efficiency: 88% (typical)
- Isolation Voltage: 1,500 Vdc
- Operating temperature: -40 to 105°C
- Accepts wide range of input voltages: 12Vdc 36Vdc
- 12-19V 60W center-positive Vdc power brick (included)

4. Installation



Risk of Electrocution

Do not touch any electrical terminals when attaching any Eurorack bus board cable. Do not bridge any of the rail connections together. Do not pour water on your PSU. The onus is on the user to identify the power receptacle relationship and ensure that the correct tip-positive/negative relationship is known prior to powering the board.

We recommend a tip-positive barrel-jack connector and receptacle.

5. Return Policy and Limited Warranty

Customers may be issued a full refund if an item is defective. There is a 30-day return policy from the date the item is received. Once the 30 day period has elapsed, customers are eligible for service repair under manufacturers warranty.

Delta Sound Labs warrants this product to be free of defects in materials or construction for a period of one year from the date of purchase (proof of purchase/invoice required).

Malfunction resulting from incorrect power supply or eurorack bus board cable connections, abuse of the product or any other causes determined by Delta Sound Labs to be the fault of the user are not covered by this warranty and normal service rates will apply. During the warranty period, any defective products will be repaired or replaced, at the option of Delta Sound Labs, on a return-to-Delta Sound Labs basis with the customer paying the transit cost to Delta Sound Labs. Delta Sound Labs implies and accepts no responsibility for harm to person or apparatus caused through operation of this product.

Please contact <u>support@deltasoundlabs.com</u> with any questions, Return To Manufacturer Authorization, or any needs & comments.

6. Disclaimer

In no event shall our company be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, whatsoever arising out of or connected with the use or misuse of our products.