

PSU-8 – Utility Power Board

The PSU-8 is a utility power board that is offered in several configurations to provide a range of power solutions.

PSU-8a (+12V @ 3A, -12V @ 750mA)

This configuration is the simplest of all the configurations offered. It requires an external 12VDC supply and generates -12VDC @ 750mA. The maximum +12V loading is 3A.

The -12V output is a filtered switching-regulator supply. The +12V supply will be either filtered switching-regulator if the external supply is a switched-mode power supply (SMPS) SMPS, or linear if the external supply is a linearly regulated power supply (LRPS).

PSU-8b (+12V @ 3A, -12V @ 2A)

This configuration expands on the PSU-8a increasing the -12V output capacity to 2A

PSU-8c (+15V @ 3A, -15V @ 600mA)

This configuration is the 15V variant of the PSU-8. It requires an external 15VDC supply and generates -15VDC @ 600mA. The maximum +15V loading is 3A.

As with the PSU-8a the -15V output is a filtered switching-regulator supply while the +15V output will depend on the external power supply.

PSU-8d (+15V @ 3A, -15V @ 1.6A)

This configuration expands on the PSU-8b increasing the -15V output capacity to 1.6A.

The PSU-8a and PSU-8c are ideal for powering small boat systems including BOCGS and Serge designs.

The PSU-8b and PSU-8d are perfect for powering multiple small systems such as 3 board BOCGS

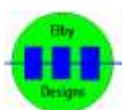
The PSU-8c and PSU-8d configurations can be followed by a PSU-9 to provide cleaner, linear regulated +/-12V outputs making them ideal for EuroSynth systems or any application requiring a compact +/- power supply.

Two output connectors are provided on the PSU-8:-

- 1) 1/4" quick-connect spades, and
- 2) 4-way 0.156", MTA connector.

Quick-connect spades are the common power interconnect method used in our power/busboard range and is supported by many 3rd-party manufacturers, especially in the EuroSynth market. Our Flying Busboard Adaptor can be used to allow flying bus cables to be connected to the PUS-8 (or any of our other offerings) and this combination offers one of the lowest cost paths to powering a EuroSynth system.

The MTA connector is commonly found in 4U systems including the Cat Girl Synth and Serge systems.



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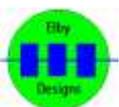
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The above drawing shows the recommended connections for the PSU-8

Although the small footprint and low profile of the PSU-8 makes it ideal for installing inside your enclosure, the PSU-8 can optionally be mounted in to a small Hammond enclosure and used as a stand-alone supply. In this configuration the output is provided via a 4-pin MIC connector while the power input connector is a common 2.5mm DC jack.



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