



ADDAC System

ADDAC901M MONSTER FRAME PSU Guide
USER'S GUIDE . REV01

May.2025

Welcome to:

ADDAC901M Monster Frame

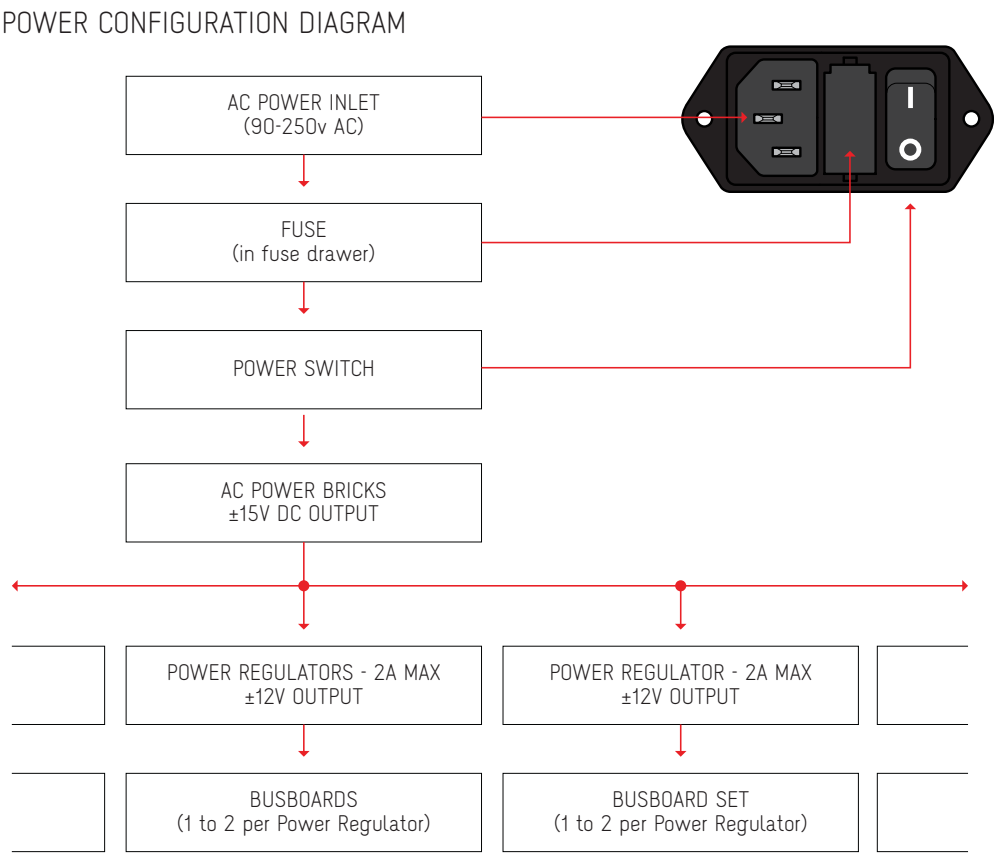
Power Supply Unit & POWER DISTRIBUTION GUIDE

Revision.01 May.2025

OVERVIEW

Our Power Supply Unit was designed to be safe and reliable while keeping an overall low noise profile.

The power supply unit is comprised of three diferent parts:
Universal AC input (90-250v) Switching Power Bricks provide $\pm 15\text{v}$ Outputs (20A to 40A options)
Custom analog regulator boards with heatsinks bring +15v down to +12v (max 4A per regulator, 2A per rail)
Busboards distribute current to all modules



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AC POWER BRICKS

Mean Well Universal AC to +15v DC with shutdown protection for:

Over Current - when maximum current is exceeded (for when a module ribbon cable is reversed)

Over Heating - if the AC Brick is over heating

Over Voltage - if the voltage changes above or below the expected output

If one of these issues happens then the PSU will enter an intermittent ON/OFF state until the issue is corrected.

FUSE

The fuse is located in a drawer next to the AC Inlet Plug.

The drawer can hold up to 2 fuses, one of them is a spare that may come very handy sometime.

In case the fuse burns replace with a new one with the same value (value depends on the frame psu option).

FAN and FAN FUSE

A low dB AC fan is installed as default as an over cautious measure of further dissipate the heat generated.

These can be turned off by removing the fuse connecting the AC INLET to the Fan.

!! ALWAYS REMEMBER TO UNPLUG THE AC CABLE BEFORE OPENING THE FAN FUSE HOLDER !!



POWER REGULATORS

Each Power Regulator provide 2A on -12v and 2A on +12v to its set of busboards.

Manage the placement of your modules so that the sum of all power from each Busboard Set stays below this limit.

ModularGrid is a great place for planning while having a current consumption prediction:

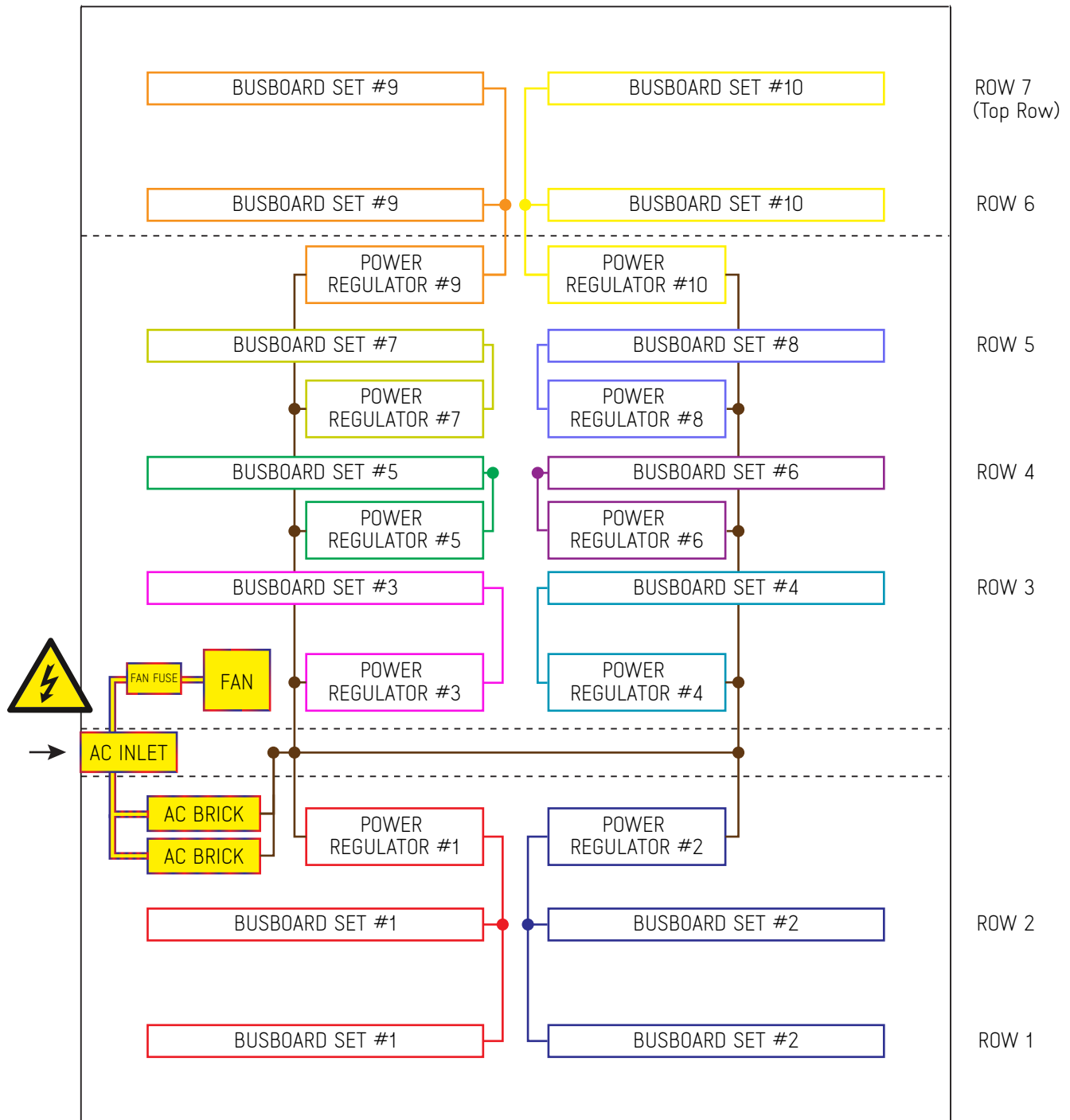
<https://www.modulargrid.net>

FURTHER CONSIDERATIONS

It's always a good advice and practice to keep your overall consumption below 80% of the available power.

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POWER DISTRIBUTION LAYOUT - 20A +12v & 20A -12V



Standard Connections, custom setups can be requested.

For feedback, comments or problems please contact us at:
addac@addacsystem.com

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