

The MicroFrame PS-2 Power Supply

1.3.1 The PS-2

The PS-2 is the power supply module for the MicroFrame™ Series. It provides a linearly regulated bipolar (\pm) 15 volts, at a maximum of 1.5 amps, to power the system. Linear regulators are used to ensure ultra low noise amplifier operation. Two power supply modules are needed for each MF-1. The module has combining diodes at the output to the backplane allowing redundant regulator operation. The MF-1 uses a common power transformer and power entry module to feed the two PS-2 power supply modules. Individual voltage trim potentiometers are provided to allow for load balancing between the two supply modules. The power supply regulator modules have transformer secondary fuses to isolate them from the transformer, in the highly unlikely event of a catastrophic failure in one of the modules.

Operation of the MicroFrame™ Series should be done with forced air cooling, as 80 watts of power may be dissipated by the system. Operation without forced air is permitted for short time periods, but regular operation in this manner is not recommended.