

Xantrex Power Supply

Specifications:

Provides 1.2kW of DC power for OEM Applications. The Xantrex XFR 1.2kW programmable DC power supply provides clean, reliable power for research, product development, production test applications, and OEM applications where high power and a wide adjustment of output voltage or current are required in a 19-inch rack package. The XFR 1.2kW is packaged in a 1.75-inch (1U) high chassis and offers twenty percent more power than any competitive product in a similar package.

The supplies have excellent thermal management allowing for units to be stacked in rack mounts without any ventilation space required between each unit. They also offer high reliability with zero voltage, or "soft switching", which virtually eliminates switching transients for high efficiency, decreased heat generation, and reduced stress on the switching transistors.

Product Features

- Zero voltage "soft switching"
- Simultaneous front panel display of output voltage and current
- Constant voltage or constant current operation
- Remote sense with 5V line loss compensation
- LabVIEW® and LabWindows® drivers

Protection Features

- Over voltage protection
- Over temperature protection

Electrical Specifications

Output Ratings:

- **Output Voltage:** 0 - 20v
- **Output Current:** 0 - 60 amps
- **Output Power:** 1200w

Line Regulation:

- **Voltage:** 2.5mV
- **Current:** 4mA

Load Regulation:

- **Voltage:** 3mV
- **Current:** 8mA

Meter Accuracy:

- **Voltage:** (0.5% of V_{max} + 1 count) 0.3v
- **Current:** (0.5% of I_{max} + 1 count) 0.7 amps

Output Noise:

- **Voltage:** (p-p) 50mV

Output Ripple:

- **Voltage:** 8mV
- **Current:** 300mA

Drift (8 hours):

- **Voltage:** (0.05% of Vmax) 10mV
- **Current:** (0.05% of I_{max}) 30mA

Temperature Coefficient:

- **Voltage:** (0.02% of V_{max}/°C)
- **Current:** (0.03% of I_{max}/°C)

Program Slew Rate:

- **Rise Time:** 100ms
- **Fall Time:** 100ms
- **OVP Adjustment Range:** (5% to 110% of V_{max}) 1-22V
- **Efficiency:** 81%

General Specifications

- Operational AC Input voltage: 85 - 130 vac or 190 - 264 vac, 1 phase (1.7A @ 120 vac typical), 47-63 Hz, Automatic range detect.
- Switching Frequency
 - 6v to 40v models: 78kHz (156 kHz output ripple);
 - 60v to 600v models: nominal 62.5 kHz (125 kHz output ripple)
- Remote Analog Programming: Voltage and current programming inputs (source must be isolated): 0-5K, 0-10 k resistances; 0-5V, 0-10V (default) voltage sources
- Remote Analog Monitoring: Voltage and current monitor outputs 0 - 5v, 0 - 10v (default) ranges for 0-100% of output.