

MODEL 6777PS

VME-base Stand-Alone Low Noise Power Supply

FEATURES:

- Logic and bulk power supplies are high efficiency switchers rated at 10 mV RMS, 35mV p-p for +5V / 10mV RMS, 50mV RMS, 50mV for +/- 12V
- Analog power is high quality, provided by low noise linear supply rated at 1.5 mV RMS, 5mV p-p
- Self cooling system with front removable air filter.
- 19" rack mountable, 3U height (5.25").
- Power supplies feature over voltage & current protection, and remote sensing.
- RFI line filter

**APPLICATIONS:**

- Low noise, high power requirements.

GENERAL DESCRIPTION:

The Bi Ra Model 6777PS is a VME-based, stand-alone power supply ideal for VME systems that require reliable, high quality power. The system utilizes all high quality power supplies for all output power. The 6777 has three internal cooling fans and a front panel removable foam air filter. The 5V and bulk power supplies are switching units with efficiencies of about 70% at full load. The analog supplies are linear, low noise units which are packaged in a compact (3U) rugged chassis.

Switcher Power Supply Specifications:

AC Input: 85-132 / 170 –265 VAC auto selectable, 47-440Hz.
 Line Regulation: 0.1% for variations from low-line to high-line and high line to low line.
 Load Regulation: 0.1% for load variation from no load to full load and full load to no load.
 Ripple and noise: 10mV RMS, 35 mV p-p for +5V power supply.
 10mV RMS, 50 mV p-p for +/- 12V power supplies.

MODEL	+5V	+12V	-12V	+12V	-12V
6777PS	50A	42A	42A	4A	4A
	Switcher Power Supplies			Linear Power Supplies	

Over Voltage Protection: Inverter shutdown.
 Over Load Protection: Internal current limiting circuit resets automatically.
 Overshoot: No overshoot at turn-on, turn-off or input power failures.
 Remote Sensing: Internal circuitry allows for a 1.2V drop in output leads.
 Remote On/Off: TTL compatible, active high.
 Thermal Protection: Internal thermostat protects the power supply against fan failure or blockage.
 AC power must be recycled to restore operations.
 Operating Temperature Range: Operation from -40°C to 71°C with derating above +40°C.
 Storage Temperature: -40°C to +85°C
 Temperature Coefficient: 0.025% per °C

Cooling: Force-air via an internal fan.
Vibration / Shock: MIL – STD – 810E
Operation conditions: Industrial applications requiring reliable performance under harsh operating conditions.
EMI / Safty: Meets worldwide requirements.
Warranty: 5 years

Linear PowerSupplySpecifications:

AC Input: 106 – 127 VAC / 210 – 254 VAC (by transformer top change), 47-440Hz.
Line and Load Regulation: 0.1%
Ripple and noise: 1.5 mV RMS, 5mV p-p
Over Voltage Protection: Over voltage protection module crowbars output when trip level is exceeded.
Over Load Protection: Automatic electronic current limiting circuit limit the output current to a preset value.
Overshoot: No overshoot at turn-on, turn-off or power failures.
Remote Sensing: Remote sensing capability is provided on all outputs.
Thermal Protection: Thermostat–automatically reset when over temperature condition is eliminated.
Operating Temperature Range: Operation from 0°C to 71°C with derating above +40°C.
Storage Temperature: -40°C to +85°C
Temperature Coefficient: 0.03% per °C
Cooling: Force-air via an external fan.
Warranty: 5 years

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