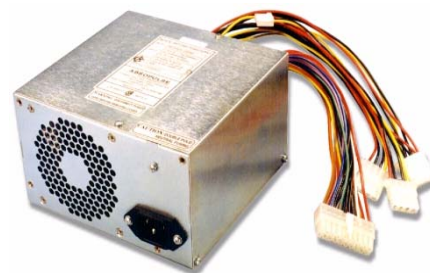


150W, Rugged Power Supply for Medical Applications MPS 420 Series

- Certified for medical applications CSA 601.1
- Leakage current less than 200 μ A
- Made in North America
- Fully enclosed with internal fan
- Auto-ranging input
- Fully protected



The MPS 420 Series rugged medical quality AC/DC power supply uses field-proven topology to generate 150W output power. It is a mature design with a track record in hundreds of applications. This power supply is in mini AT format and is fully compatible with industry standard power supplies for personal computers and associated applications. Electrical and mechanical design enhancements have been incorporated to meet the specific needs of the medical industry as well as the stringent requirements of North American and European Medical standards. It is cooled by an internal fan and is rated for operation over a 0°C to 50°C temperature range without derating. Low component count and the use of components with established reliability results in a high MTBF. The unit is manufactured at our plant under strict quality control.

SPECIFICATIONS

Input Voltage 115/230Vac +/- 15%, 47 - 63Hz Autorangeing Input current 2.8A max at 95Vac	Hold Up Time Minimum 15ms at full load range for all outputs	Output Overload Protection Rectangular current limiting with short-circuit protection by hiccup on the main 5V/20A output and non-hiccup on other outputs Thermal shutdown in case of insufficient cooling (self resetting)	Indicators None
Input Protection Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified minimum input will not damage the unit	Output Voltage/Current +5V/20A, -5V/0.3A +12V/3.5A, -12V/0.3A, Total 150W max Consult factory for other voltages	Output Overvoltage Protection Double regulator loop completely stable and independent of main loop	Control Input None
Isolation 2250VDC input to chassis 5660VDC input to output; 8mm spacing Output is connected to GND inside the chassis	Redundancy Diode None	Efficiency 72% at full load, depending on output voltage	Power On/Off Control Complies with NLX requirements
Approvals CAN/CSA-C22.2 No. 601.1 UL 2601, CAN/CSA-C22.2 No 950-95, UL 1950 certified. CSA, NRTL/C safety marking	Line Regulation +/- 1% over full input range	Operating Temperature Range 0 to +50°C for full specification with proper cooling	Alarm Output None
EMI EN55022 Class B	Load Regulation +5V output: +/-2% +12V output: +/-6% -12V output: +/-1% -5V output: +/-1%	Temperature Drift 0.03% per °C over operating temperature range	Package/Dimensions (W x H x L) 140 x 86 x 151 mm (5.5" x 3.4" x 5.95")
Switching Frequency 100KHz +/-10KHz	Dynamic Response Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time	Cooling Forced air cooling by internal fan 29CFM min.	Weight 1.8kg (4lb)
	Output Ripple / Noise Less than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHZ BW)	Environmental Protection Basic ruggedizing	Connections AC input receptacle EAC 309 or IEC 60320 C16 Main output power connector 6-pole (female) MASCON (q-ty 2) Peripheral and floppy connector 4-pin (female) MOLEX (q-ty 2) Remote sense connector 2-pin (female) MASCON
	Leakage Current Less than 200 μ A (lower than CSA-C2.2 No. 601.1 requirements)	MTBF 130,000 hours @ 45°C Demonstrated MTBF is significantly higher.	RoHS Compliance Fully compliant
			Warranty Two years subject to application within good engineering practice



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