



Micronix PV-5124

Power Supply module with 1.76/ 3.84 MB Flash SSD, integrated UPS and battery charger.



Micronix PV-5124 is a PC/104 Power Supply with 1.76/ 3.84 MB Flash SSD which provides a convenient way to supply both power and solid state disk capacity to PC/104 bus products. The flash SSD emulates a standard FDD, a complete PC system can thus be assembled from just one Micronix PV-5124 and one PC/104 CPU.

Micronix PV-5124 is a high efficiency DC to DC converter with 30 Watt output capability. It is designed for embedded vehicular and remote battery operated systems applications. It will withstand extended temperatures and the shock and vibration of mobile equipment. Micronix PV-5124 has integrated battery charger and built-in UPS function with interrupt alarm outputs. It also features CPU controlled and automatic shut down for battery discharge protection.

Micronix PV-5124 Features

- Clean and filtered power for the PC/104 bus
- Power Supply Output: +5V & ±12V
- 2/4 MB Flash SSD onboard (emulates FDD)
- Seek time: <1ms
- 8 to 30 VDC input range
- 30 Watt output
- Stacks on the PC/104 bus
- Highly compact, PC/104 compliant
- Wide temperature range: -20° to +70°C
- Low quiescent current
- High efficiency up to 85%
- Integrated constant current/constant voltage battery charger for 12V Lead-Acid batteries (max 0.6A)
- "Mains failure" alarm interrupt
- "Battery low" alarm interrupt
- CPU controlled and automatic shut down
- Low cost

Specifications:

Output Voltage:	+5V @ 5A +12V @ 250 mA -12V @ 100 mA	Alarm outputs:	"Mains failure" and "Battery low" INT5,7,9,10,11,12,15 program- mable.
Input Range:	8-30 V dc, or 16 to 30V dc using battery charger for 12V battery	CPU Shutdown:	Delayed 0-127 seconds
SSD Disk capacity:	PV-5122: 1.76MB PV-5124: 3.84MB	Auto Shutdown:	120 seconds after "Mains failure" and "Battery low"
Seek time:	<1 ms	Environmental	
		Operating temperature	-20° to 70° C
		Storage temperature	-40 to 85° C
		Humidity	0 to 90% non-condensing
		Size (WxLxH)	90 x 95 x 15 mm

Ordering codes

Model no.	Description
PV-5120A-S	PC/104 Power Supply Module (+5V, ±12V) Cut-down version
PV-5120-S	PC/104 Power Supply Module (+5V, ±12V) with UPS and battery charger
PV-5122-S	PC/104 Power Supply Module (+5V, ±12V) with 1,76 MB Flash SSD, UPS and battery charger
PV-5124-S	PC/104 Power Supply Module (+5V, ±12V) with 3,84 MB Flash SSD, UPS and battery charger



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