



## APPLICATIONS

Featuring an input voltage range from 90V to 253V AC and four stabilised outputs, EMTrust's 3U, 12TE CompactPCI power supply units comply to the CompactPCI specification and are also available for extended operating temperature range.

- ▶ Rugged Embedded Systems
- ▶ Instrumentation
- ▶ Robotics
- ▶ Industrial Control and Automation
- ▶ Maintenance-Free Systems
- ▶ Traffic and Transportation
- ▶ Measurement & Control

# ICP-PSU-AC120

## 120W Modular AC/DC Power Supply Unit



## ICP-PSU-AC120

### FEATURES

- ▶ Dedicated CompactPCI PSU
- ▶ 120W continuous load output
- ▶ Fully protected stabilized outputs
- ▶ Automatic failure recovery
- ▶ EMI filtered
- ▶ Full safety compliance
- ▶ LED status and power indication

### BENEFITS

- ▶ Open standard architecture
- ▶ Service & user friendly
- ▶ 19" cassette for improved maintenance
- ▶ Long-term product availability





# ICP-PSU-AC120

PSU

## OVERVIEW

All outputs are individually protected against overload, short circuits and over temperature conditions, and are capable of automatic recovery once the fault condition is rectified.

The PSU is designed for compliance with EN60950 safety standards, and can deliver up to 120W output at environmental temperatures up to 50°C.

### SPECIFICATION SUMMARY

- ▶ 4 regulated DC outputs
- ▶ Fully protected
- ▶ Active cooling
- ▶ Status LEDs
- ▶ Extended operational temperature
- ▶ High MTBF
- ▶ Rugged 3U cPCI format

## SPECIFICATIONS

<b>INPUT VOLTAGES RANGE</b>	Between 90V AC and 253V AC	<b>COMPATIBILITY</b>	Compatible with EMTrust PSU	<b>MASS</b>	1.25kg
<b>FUSE</b>	2.5AT (external)	<b>STANDBY-POWER</b>	10W	<b>OPERATING TEMP</b>	-10°C to +70°C (derating >50°C)
<b>INPUT FREQ.</b>	48Hz to 62Hz	<b>POWER</b>	120W @ +50°C; derating by 2%/K t > 50°C	<b>EXTENDED TEMP</b>	-25°C to +85°C (derating >50°C)
<b>OUTPUT</b>	<ul style="list-style-type: none"> <li>▶ Ua1 +3.3V, 10A with 11A current limit</li> <li>▶ Ua2 +5.1V @ 15A with 16A current limit</li> <li>▶ Ua3 +12V @ 1A with fixed limiting at 1.8A</li> <li>▶ Ua4 -12V @ 0.25A with fixed limiting at 1.8A</li> </ul>	<b>EFFICIENCY</b>	>80% (typ.) at max. load	<b>STORAGE TEMP</b>	-25°C to +85°C
<b>POWER FAIL</b>	Open-collector; active low at Ua2 ≤ 4.90V	<b>CONNECTOR</b>	DIN EN 60603 (DIN 41612) M-connector	<b>CLIMATIC CLASS</b>	EN60654-1 Class B2
<b>TURN-ON</b>	< 1000ms	<b>STATUS LEDS</b>	+3.3V, +5.0V, +/-12.0V (green) Standby (yellow)	<b>HUMIDITY</b>	5% to 95% (non-condensing) @ 40°C
<b>PROTECTION</b>	Continuous short-circuit protection. Overvoltage monitoring (and limiting) of 3.3V line to avoid incorrectly keyed 3.3V/5.0V CompactPCI backplane	<b>INHIBIT</b>	According to CompactPCI specification	<b>SAFETY</b>	<ul style="list-style-type: none"> <li>▶ EN60950</li> <li>▶ Protection Class I</li> <li>▶ Overvoltage Category II</li> <li>▶ Pollution Degree 2</li> </ul>
		<b>ENABLE FUNCTION</b>	According to CompactPCI specification	<b>EMISSION</b>	<ul style="list-style-type: none"> <li>▶ EN55022 Limit A</li> <li>▶ EN61000-3-2</li> </ul>
		<b>COOLING</b>	Thermostat regulated fan unit (internal)	<b>IMMUNITY</b>	<ul style="list-style-type: none"> <li>▶ EN 61000-6-2</li> <li>▶ EN 61000-4-2</li> <li>▶ EN 61000-4-4</li> <li>▶ EN 61000-4-5</li> </ul>

## ORDERING INFORMATION

PRODUCT	DESCRIPTION
ICP-PSU-AC120-t	3U, 120W, AC/DC stabilised, switched-mode PSU with M power connector and 3 outputs (+12V, +5V and +3.3V)
KEY:	t- Temp. Range 0 = 0°C to +70°C (1 = -25°C to +85°C) - Contact Sales