



APPLICATIONS

Featuring a factory-set nominal AC input voltage of either 115V AC or 230V AC and three stabilised outputs, EMTrust's 3U, 10TE CompactPCI power supply units comply to the Compact-PCI specification and are also available for extended operating temperature ranges.

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

ICP-PSU-AC70

70W Modular AC/DC Power Supply Unit



ICP-PSU-AC70

FEATURES

- ▶ Dedicated CompactPCI PSU
- ▶ 70W 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-AC70

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 70W output at environmental temperatures up to 50°C.

SPECIFICATION SUMMARY

- ▶ Factory set AC inputs
- ▶ 3 regulated DC outputs
- ▶ Fully protected
- ▶ Passive cooling
- ▶ Status LEDs
- ▶ Extended operational temperature
- ▶ High MTBF
- ▶ Rugged 3U cPCI format

SPECIFICATIONS

INPUT VOLTAGES

110V AC (+ 10%, - 20%)
factory-set
or
230V AC (± 10%) factory-set

FUSE

2.5AT (external)

INPUT FREQ.

48Hz to 70Hz

OUTPUT

- ▶ Ua1 +3.3V ± 1%, 5A
- ▶ Ua2 +5.1V ± 1%, 12A
(14A max 100ms)
- ▶ Ua3 +12V ± 5%, 1A

ZERO LOAD

Suitable for low power devices

TURN-ON

~ 500ms

PROTECTION

Continuous short-circuit protection with auto recovery

POWER

70W @ +50°C (passive cooling)

EFFICIENCY

80% (typ.) at max. load

DERATING

2%/K >50°C
(42W @ +70°C; 21W @ +85°C)

CONNECTORS

DIN EN 60603 (DIN 41612)
Type M Male

COMPATIBILITY

Compatible with EMTrust PSU

STATUS LEDS

+3.3V, +5.0V, +12.0V
(green)

COOLING

Convection

MASS

~770g

DIMENSIONS

3U x 10HP x 160mm

OPERATING TEMP

0°C to +70°C

EXTENDED TEMP

-25°C to +85°C (derating > 50°C)

STORAGE TEMP

-25°C to +85°C

CLIMATIC CLASS

EN60654-1 Class B2

INGRESS PROTECT.

IP 20

HUMIDITY

5% to 95% @ 40°C
(non-condensing)

SAFETY

- ▶ EN60950
- ▶ Protection Class I
- ▶ Overvoltage Category II
- ▶ Pollution Degree 2

EMISSION

- ▶ EN55022 Limit A
- ▶ EN61000-3-2

IMMUNITY

- ▶ EN 61000-6-2
- ▶ EN 61000-4-2
- ▶ EN 61000-4-4
- ▶ EN 61000-4-5

ORDERING INFORMATION

PRODUCT	DESCRIPTION
ICP-PSU-AC70-vt	3U, 70W, AC/DC stabilised, switched-mode PSU with M power connector and 3 outputs (+12V, +5V and +3.3V)
KEY:	v- Input Voltage 0 = 230V (nom.) 1 = 110V (nom.) t- Temp. Range 0 = 0°C to +70°C 1 = -25°C to +85°C



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