



APPLICATIONS

Featuring a nominal input voltage of 110V DC conforming to EN50155 and four stabilised outputs, EMTrust's 3U, 12TE CompactPCI power supply units are fully compliant with the latest CompactPCI specifications and are compatible with the EMTrust PSU for mobile or rugged applications.

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

ICP-PSU-DC70

70W Modular DC/DC Power Supply Unit



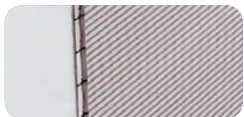
ICP-PSU-DC70

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

- ▶ EN 50155 compliance
- ▶ Open standard architecture
- ▶ Service & user friendly
- ▶ 19" cassette for improved maintenance
- ▶ Long-term product availability





ICP-PSU-DC70

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

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

SPECIFICATIONS

INPUT VOLTAGES

110V DC \pm 30% (EN50155)

FUSE

2.5AT (external)

OUTPUT

- ▶ Ua1 +3.3V, 10A with 11A current limit
- ▶ Ua2 +5.1V @ 15A with 16A current limit
- ▶ Ua3 +12V @ 1A with fixed limiting at 1.8A
- ▶ Ua4 -12V @ 0.25A with fixed limiting at 1.8A

POWER OUTPUT

70W @ +50°C; derating by 2%/K t > 50°C

POWER FAIL

Open-collector; active low at Ua2 \leq 4.90V

PROTECTION

Continuous short-circuit protection.
Overvoltage monitoring (and limiting) of 3.3V line to avoid incorrectly keyed 3.3V/5.0V CompactPCI backplane

COMPATIBILITY

Compatible with EMTrust PSU

EFFICIENCY

>80% (typ.) at max. load

CONNECTORS

DIN EN 60603 (DIN 41612)
M-connector

STATUS LEDS

+3.3V, +5.0V, +/-12.0V (green)
Standby (yellow)

INHIBIT

According to CompactPCI specification

ENABLE FUNCTION

According to CompactPCI specification

COOLING

Convection

MASS

1.25kg

OPERATING TEMP

-10°C to +70°C
(derating >50°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

IMMUNITY

- ▶ EN 61000-6-2
- ▶ EN 61000-4-2
- ▶ EN 61000-4-3
- ▶ EN 61000-4-4
- ▶ EN 61000-4-5

RAILWAY

EN 50155

ORDERING INFORMATION

PRODUCT	DESCRIPTION
ICP-PSU-DC70-t	70W DC/DC, stabilised, switched-mode PSU for mobile (EN50155) use with 4 regulated outputs, M power connector and internal cooling fan.
KEY:	t- Temp. Range 0 = 0°C to +70°C (1 = -25°C to +85°C) - Contact Sales



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