



APPLICATIONS

Featuring a nominal input voltage of 8,5V to 36V DC 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-DC100

100W Modular DC/DC Power Supply Unit



ICP-PSU-DC100

FEATURES

- ▶ Dedicated CompactPCI PSU
- ▶ 100W 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-DC100

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 100W 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

INPUT VOLTAGES

8.5V DC to 36V DC

FUSE

20A (internal)

OUTPUT

- ▶ Ua1 +3.3V, 10A with 11A current limit
- ▶ Ua2 +5.1V @ 12A with 13A current limit
- ▶ Ua3 +12V @ 1A with fixed limiting at 1.8A
- ▶ Ua4 -12V @ 0.25A with fixed limiting at 1.8A

POWER FAIL

Open-collector; active low at Ua2 ≤ 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

STANDBY POWER

10W

POWER

100W @ +50°C; derating by 2%/K t > 50°C

EFFICIENCY

>80% (typ.) at max. load

CONNECTOR

DIN EN 60603 (DIN 41612) Type M Male

STATUS LEDs

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

INHIBIT

According to CompactPCI specification

ENABLE FUNCTION

According to CompactPCI specification

COOLING

Thermostat regulated fan unit (internal)

OPERATING TEMP

-10°C to +70°C (derating >50°C)

EXTENDED TEMP

-25°C to +85°C (derating >50°C)

MASS

1.25kg

STORAGE TEMP

-25°C to +85°C

DIMENSIONS

3U x 12HP x 160mm

CLIMATIC CLASS

EN60654-1 Class B2

INGRESS PROTECT

IP 20

HUMIDITY

5% to 95% (non-condensing) @ 40°C

SAFETY

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

EMISSION

EN55022 Limit A

IMMUNITY

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

ORDERING INFORMATION

PRODUCT	DESCRIPTION
ICP-PSU-DC100-t	100W DC/DC, stabilised, switched-mode PSU for mobile 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