



## 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



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