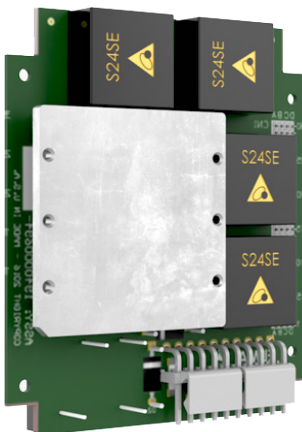


DUAL VOLTAGE OUTPUTS



FOUR VOLTAGE OUTPUTS

Description

This rugged isolated power supply is capable of supplying up to 25W of power output across two (one 5V and one 3.3V) and 50W of power across four (dual 5V and dual 3.3V) output parts for a range of sensitive defense applications as well as industrial applications. Its form factor allows it to work as a standalone power supply or as a non-stack through PCI/104 supply. It is ideal for compact small form factor (SFF) systems designed for long term reliability in tough environments that demand input output voltage isolation. For critical power conditioning requirements in defense applications the isolated power supply is MIL-STD-1275D, MIL-STD-704F, MIL-STD-461F and MIL-STD-810G compliant with an input voltage spread of 11.4V to 36V. The isolated power supply also meets the requirements of rugged industrial applications as well.

Features

- Non-stack through PCI/104 or standalone operation in any small form factor system
- Ideal for use in non PCI/104 system architectures using discrete connectors for power distribution
- 11.4V to 36V DC input
- Voltage Output: Single 5V and 3.3V or dual 5V and 3.3V output options. Output wattage 25W/50W. Other voltage options available. Contact factory.
- MIL-STD-1275D, MIL-STD-704F, MIL-STD-461E and MIL-STD-810G compliant
- -40°C to 85° C extended operating temperature

Benefits

- Applicable to a wide range of SFF systems
- Access to Elma's integration and packaging experts for complete system level design and integration support

Applications and Related Products

The rugged isolated power supply is ideal for use in SFF systems targeted for space constrained installations in demanding environments common in defense and industrial applications. Ideal for air and ground based vehicular defense equipment requiring stringent signal isolation.



- Rugged and industrial system enclosures
- Thermally conductive card edge retainers.
- Small form factor building blocks; carrier cards, I/O cards, power supply options

SFF

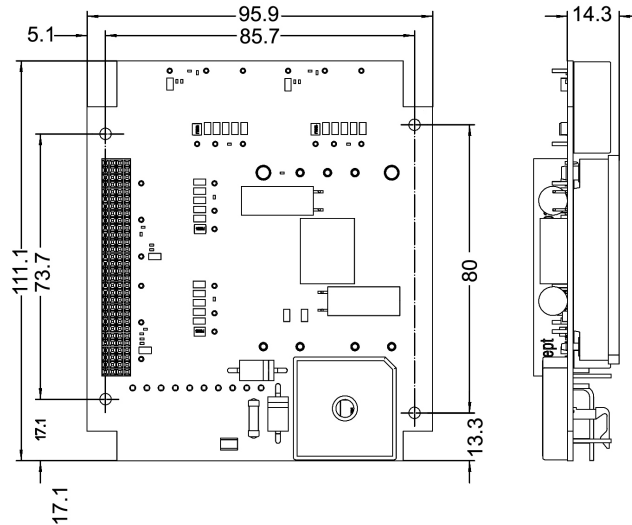
Isolated Power Supply

11.4V to 36V, MIL-STD-1275/704/461/810



Line Drawing

Designed for PCI/104 standard connectivity. Some dimensional deviations apply as shown below.



Specifications

Input / Output	<p>Voltage Input: Nominal 28.0 V DC Defense/Industrial: (11.4V to 36V DC with support for +/- 250V spike and 100V surge per MIL-STD-1275D) Voltage Output: Single 5V(3A) and 3.3V(3A) or dual 5V(3A) and 3.3V(3A) output options. Output wattage 25W/50W Isolation: 1500V Galvanic Isolation DC Input protection: Reverse Polarity, Voltage Transient, Surge, Spike, Over current Output Protection: Overcurrent protection Surge and Spike Protection: MIL-STD-1275D Input Transients: MIL-STD-704F EMI filter: MIL-STD-461F</p>
Environmental	<p>Operating temperature: -40°C to 85°C / -40°F to 185°F (MIL-STD-810G, Methods 501,502) Storage temperature: -40°C to 85°C / -40°F to 185°F (MIL-STD-810G, Methods 501,502) Operating shock: 40g, 11ms (MIL-STD-810G, Meth 516) Crash Hazard Shock: 75g, 6ms (MIL-STD-810G, Meth 516) Random vibration: 10Hz to 2000Hz (MIL-STD-810G, Method 514) Humidity: Up to 95% RH @40°C, Non-condensing (Conformal Coated) Operational Altitude: Up to 15,000 feet (4,572 meters) MIL-STD-810G, Method 500</p>

Order Information

Model Number	Description
PCI104-SFF-IPSU-11-36-2 or -4	25W/50W small form factor power supply for non-stack through PCI/104 use or standalone operation. Single 5V and 3.3V (-2) or 2 each 5V and 3.3V (-4)
PCI104-SFF-IPSU-11-36-2-C or -4-C	25W/50W small form factor power supply for non-stack through PCI/104 use or standalone operation. Single 5V and 3.3V (-2) or 2 each 5V and 3.3V (-4). Conformal coated

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