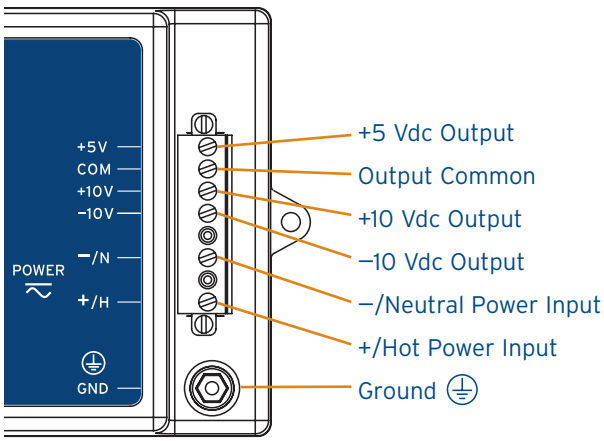
# SEL-9321

## Low-Voltage DC Power Supply

## DC-to-DC Converter for Low-Voltage Devices

*Provide reliable power for communications and instrumentation devices.*




## Features and Benefits

**Low-Voltage Power**
Provides +5 Vdc and ±10 Vdc power for communications devices and accessories from station battery or ac source.

**Reliable and Robust Per IEEE C37.90, IEC 60255, and IEEE 1613**
Backed by the SEL worldwide, ten-year product warranty. Meets IEEE and IEC standards for surge withstand, fast transient, and RFI immunity requirements in electric power substations.

**Flexible**
Choose from three voltage inputs: 24 Vdc, 48/125 Vdc or 125 Vac, and 125/250 Vdc or Vac.

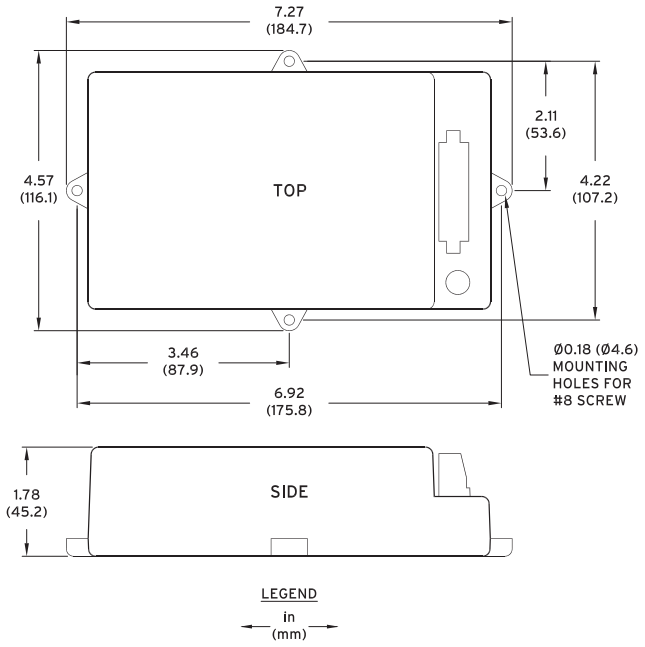
**Easily Applied**
Easily mounts to any flat surface or DIN rail with the included mounting hardware. Optional cables are available for use with the SEL-3025 Serial Shield®, the SEL-3010 Event Messenger, and the SEL-2814 Fiber-Optic Transceiver.

# SEL-9321 Low-Voltage DC Power Supply

## Type Tests

| | |
|---|---|
| Electrostatic Discharge Immunity | IEC 60255-22-2: 1992<br>IEC 61000-4-2: 1995<br>IEEE C37.90.3: 2001 |
| Fast Transient/Burst Immunity | IEC 60255-22-4: 2002<br>IEC 61000-4-4: 1995 |
| Radiated Radio Frequency Immunity | IEC 60255-22-3: 2000<br>IEC 61000-4-3: 1998<br>IEEE C37.90.2: 1995 |
| Surge Immunity | IEC 60255-22-5: 2002<br>IEC 61000-4-5: 1995 |
| Surge Withstand | IEC 60255-22-1: 1988<br>IEEE C37.90.1: 2002 |
| Dielectric Strength | IEC 60255-5: 2000<br>IEEE C37.90: 1989 |
| Impulse | IEC 60255-5: 2000 |

## Mounting and Physical Dimensions




## General Specifications

**Voltage Inputs**

**24 Vdc**
Range: 16–36 Vdc
Burden: <13 W
Allowable Ripple: <5%

**48/125 Vdc 125 Vac**
Range: 36–200 Vdc, 85–140 Vac (47–63 Hz)
Burden: <11 W

**125/250 Vdc or Vac**
Range: 85–350 Vdc, 85–264 Vac (47–63 Hz)
Burden: <11 W

**Output Ratings**

+5 Vdc: 4.75 V–5.25 V, 100 mA to 1.0 A

±10 Vdc: 8.5 V–11.5 V, 10 mA to 100 mA

5 W total

**Operating Environment**

Pollution Degree 2

Overvoltage Category II

**Type Tests (per IEEE 1613-2003)**

**Environmental**

Operating Temperature: –40° to +85°C (–40° to +185°F)

Humidity: 5 to 95% noncondensing

Maximum Altitude: 2,000 m (6,562 ft)

Atmospheric Pressure: 80–110 kPa

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