

# SEL-9321

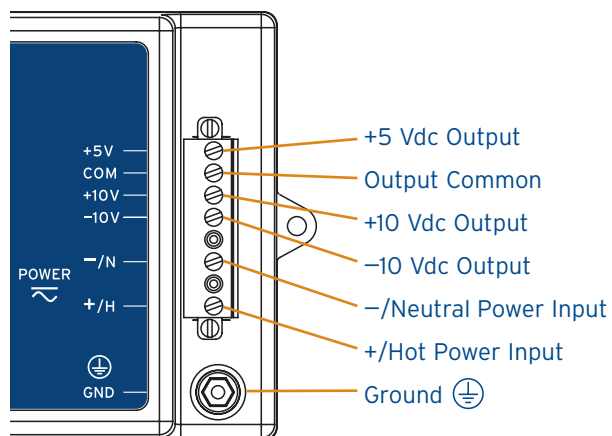


## Low-Voltage DC Power Supply

## 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  $\pm 10$  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

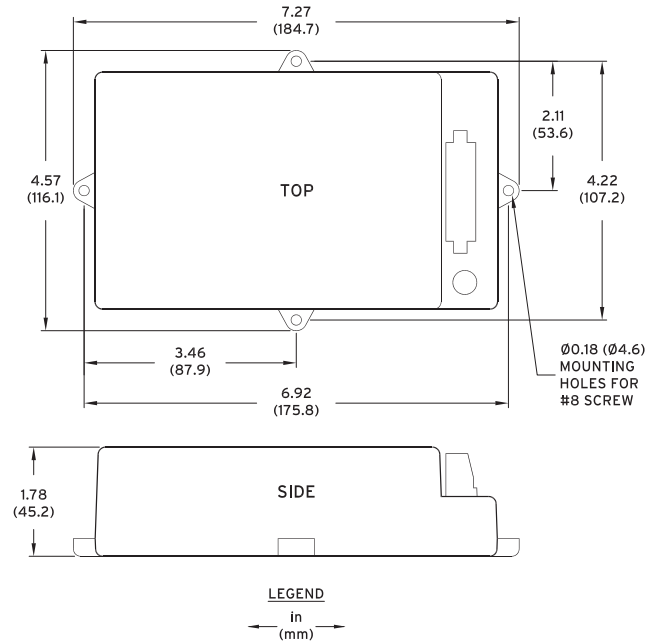
Easily mounts to any flat surface or DIN rail with the included mounting hardware.

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## Type Tests

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