

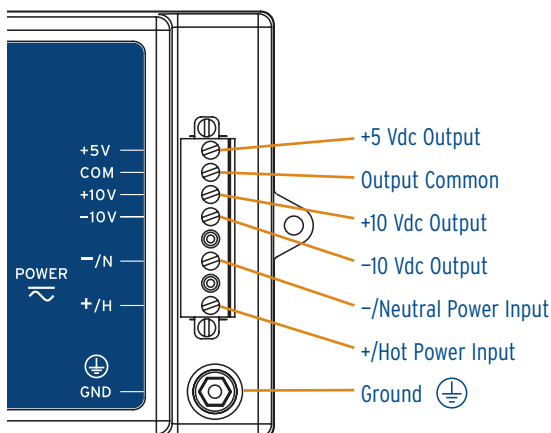
# SEL-9321 Low-Voltage DC Power Supply



## 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. Optional cables are available for use with the SEL-3021 Serial Encrypting Transceiver, the SEL-3010 Event Messenger, and the SEL-2814 Fiber-Optic Transceiver.

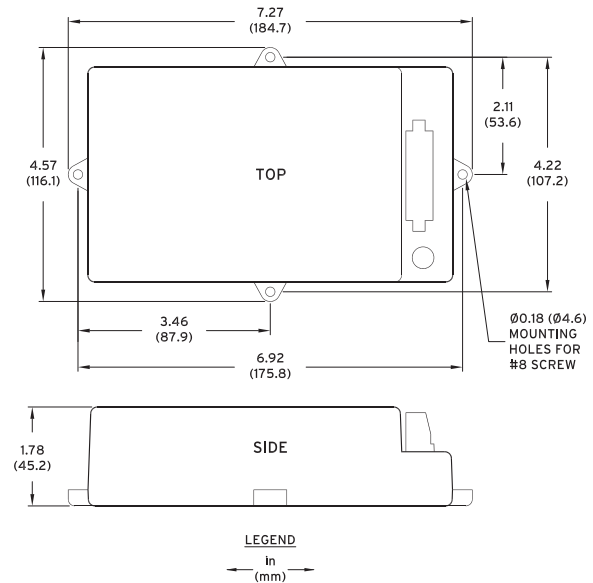
***Making Electric Power Safer, More Reliable, and More Economical<sup>®</sup>***

# SEL-9321 Low-Voltage DC Power Supply

## 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 Watts 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



Pullman, Washington USA  
Tel: +1.509.332.1890 • Fax: +1.509.332.7990 • www.selinc.com • info@selinc.com

© 2004-2015 by Schweitzer Engineering Laboratories, Inc. PF00082 • 20150529

