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-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®
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

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

SEL®

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