

# SEI 150/48-SEL Uninterruptible Power System

Designed to back up switchgear components and systems from Schweitzer Engineering Labs (SEL), Eaton, ABB and other manufacturers. This is a direct replacement for Schweitzer's SEL-UPS uninterruptible power supply.



Relays, switches, breakers, controls, PLCs, and other switchgear-related technology can be backed up automatically and seamlessly with this affordable and reliable DC UPS.

Designed to meet the requirements of the original SEL-UPS in form, fit and function, this system will support a **0.6A**, 48Vdc load for up to **10 hours**. In applications requiring surge current, its batteries will support a **30A surge for up to 200ms** every 15 seconds. Without batteries, the power supply can provide a 5A surge for 100ms.

To provide safe operation and mitigate risks associated with short circuits, the SEI 150/48-SEL has **three user replaceable fuses**: one internal to the battery pack, one between the battery pack and system controller, and one on the output port. This system can start up on batteries should utility power not be available. Additionally, this uninterruptible power supply can be manually shut down when on batteries.



In normal operation, the telecom-grade rectifier/charger powers the load while maintaining the batteries in a fully charged state. During periods of utility outage, the batteries are protected from over-discharge by a **low voltage disconnect** circuit. An automatic test circuit **monitors battery performance** and provides an alarm indication when the internal battery pack needs replacement. **Remote monitoring** for presence of AC power and battery test status is provided by Form C contact closures.

The integrated 9 Ah battery pack is **user replaceable** and can be replaced **without shutting down** the power unit. Form Fit specifications allow this unit to replace existing SEL-UPS installations without significant modifications.

## Ordering Information (Next day shipping available)

| Model #                 | Description  |
|-------------------------|--|
| <b>SEI 150/48-SEL-X</b> | 48 Vdc, 2.7 Amp (150 watt) Power Unit with integrated 9Ah battery backup, one output connection, two alarm contact connections (power fail, battery test fail) |
| <b>-001</b>             | 1 foot hardwired AC input, unterminated  |
| <b>-002</b>             | 2 foot hardwired AC input, unterminated  |
| <b>-010</b>             | 10 foot hardwired AC input, unterminated   |
| <b>-HWP</b>             | Hardwired AC input, IEC type plug  |
| <b>-IEC</b>             | Standard IEC style cord and plug   |

## Technical Specifications

| Electrical  | Environmental   | Standards  |
|---|---|--|
| <b>Input Voltage:</b><br>85-264 VAC, 43-63 HZ<br><br><b>Output Voltage:</b><br>54-55Vdc when on AC,<br>42-48Vdc when on battery | <b>Temperature:</b> Storage -20C to 50C. Operating -20C to 50C. Charging -20C to +40C. (To protect the batteries, system automatically shuts down charging above 40C)<br><br><b>Humidity:</b> 0-95% non-condensing<br><br>Optimum battery life will be achieved if the unit is stored and operated at a temperature of +25C | <b>Safety and Emissions:</b><br>Designed to comply with UL 60950 and with FCC Part 15, Class A |

## Technical Specifications –Unit Specific

| Model #            | Input Current              | Output Current        | Battery Back-up Duration |              |                          | Thermal load  | Dimensions (W" x D" x H")<br>Weight |
|--------------------|----------------------------|-----------------------|--------------------------|--------------|--------------------------|---------------|-------------------------------------|
|                    |                            |                       | at full load             | at half load | at 0.6A typical SEL Load |               |                                     |
| SEI 150/48-SEL-XXX | 1.6 A max at 115 VAC input | 2.7 A / 150 watts max | 130 minutes              | 260 minutes  | 650 minutes              | 70 BTU/hr max | 19 x 8.25 x 5.25<br>32 lbs.         |

To Order Contact SEI Sales at 301-694-9601  
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*With over thirty years experience and 30,000 systems deployed worldwide, SEI is uniquely positioned to meet the most demanding, critical DC POWER backup requirements. Whether your application is Telecommunications, Mobile Systems Integration, Process Control/SCADA, or Switchgear, SEI is your go-to source for:*

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