

SEI 150/48/SEL-P-ACC DC-UPS

This SEI DC-UPS is a direct replacement for Schweitzer Engineering Labs' SEL-UPS uninterruptible power supply.

Relays, switches, breakers, controls, PLC's and other switchgear related technology are backed up automatically and seamlessly with this affordable and reliable DC UPS.

Designed to meet the requirements of the original SEL-UPS, this unit 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 **user replaceable fuses** built in 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 shut down (when on batteries) by either removing the battery pack fuse (front panel accessible) or by holding down the battery test button for 5 seconds.

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 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.

Quantity customized versions of the DC-UPS are available.



Ordering Information

Model #	Description
SEI 150/48/SEL-P-ACC	48 Vdc, 2.7 Amp (150 watt) Power Unit with integrated 9Ah battery backup -1 output connection, two alarm contact connections (power fail, battery test fail), IEC connection for AC input
-HW	Add -HW for hardwired AC input, unterminated
-HWP	Add -HWP for hardwired AC input, IEC type plug

Technical Specifications

Electrical	Environmental	Standards
Input Voltage: 85-264 VAC 43-63 Hz Output Voltage: On AC power: 54-55 Vdc On battery: 42-48 Vdc Efficiency: 80% @ full load Output Ripple: 200mv p-p	Temperature: Storage -20 °C to +50 °C Operating 0 °C to +50 °C Humidity : 0 to 95% non-condensing Optimum battery life will be achieved if the unit is operated at a temperature of 25 °C.	Safety: designed to comply with UL 60950 Emissions: Designed to comply 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") Weight
			@ full load	@ half load	@0.6A typical SEL Load		
SEI 150/48/SEL-P-ACC	1.6 A typical 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 32 lbs

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Application Specific Configurations

Custom Engineered Solutions



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