

# System Engineering International 2U DC-UPS 48Vdc Series



The SEI 2U DC-UPS Series provides **48 Vdc** (nominal) power with integrated battery backup. Five different models offer a range of output power:

- SEI-150/48-2U-P – 150 watts
- SEI-300/48-2U-P – 300 watts
- SEI-600/48-2U-P – 600 watts
- SEI 1200/48-2U-P – 1200 watts
- SEI 1800/48-2U-P – 1800 watts



In normal operation, the telecom grade rectifier/charger(s) power 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. Automatic test circuit **monitors battery performance** and provide alarm indication when the internal battery pack needs replacement. **Remote monitoring** for presence of AC power and battery test status is provided by optional contact closures.

The SEI-900 and 1200 are configured with **parallel rectifiers**, so that the unit provides power in the event of a single rectifier failure, and by de-rating will provide **N+1 redundancy**.

Backup Battery capacity is increased by adding up to two SEI external battery packs (BP-9U or BP18/48SC) or, for extended battery backup (8 hours or more), a high capacity battery cabinet is added. **Internal Battery Replacement** can be performed easily by end users through the convenient drop-down front cover **without shutting down** the power unit.

Up to **10 power outputs** are available through optional distribution modules. Each output module has either one fused 10-32 binding post connection or two individually fused Molex MiniFit Senior connectors.



An optional **Power Management Package** is available that includes **SNMP** and remotely **managed switching** capability for all **output power ports** as well as monitoring remaining battery holdover time and current levels. Other options include regulated voltages, extended environmental and NEMA enclosures.

## Ordering Information

Model #	48 Vdc Description
SEI-150/48--2U-P	54 Vdc, 150 watts Power Unit with 9Ah integrated battery backup and one 10-32 binding post connection
SEI-300/48-2U-P	54 Vdc, 300 watts Power Unit with 9Ah integrated battery backup and one 10-32 binding post connection
SEI-600/48-2U-P	54 Vdc, 600 watts Power Unit with 9Ah integrated battery backup and one 10-32 binding post connection
SEI-1200/48-2U-P	54 Vdc, 1200 watts Power Unit with 9Ah integrated battery backup and one 10-32 binding post connection
SEI-1800/48-2U-P	54 Vdc, 1800 watts Power Unit with 9Ah integrated battery backup and one 10-32 binding post connection

SC Designates "Short Chassis" with no internal batteries. PMP includes Power Management Package.

## Technical Specifications – 48 Vdc units

Electrical		Environmental	Standards
Input Voltage:	85-264 VAC +/-10%	Temperature: -20 °C to +50 °C	Safety: Designed to comply with UL 60950
Output Voltage On AC:	54.4 -55.2 Vdc	Humidity: 0 to 95% non-condensing	Emissions: Designed to comply with FCC Part 15, Class A
Output Voltage on Battery:	42-48 Vdc	Battery life will be optimized if unit is operated at temperature of 25 °C	
Efficiency:	80% at full load		
Output Ripple:	250mv p-p		

Model #	Output Current	Battery Back-up Duration		Thermal load	Dimensions * (W" x D" x H")
		@ full load	@ half load		
SEI-150/48-2U-P	3.6 A max	130 minutes	260 minutes	190 BTU/hr max	19 x 22 x 3.5
SEI-300/48-2U-P	7.1 A max	65 minutes	130 minutes	190 BTU/hr max	19 x 22 x 3.5
SEI-600/48-2U-P	14.3 A max	32 minutes	65 minutes	650 BTU/hr max	19 x 22 x 3.5
SEI-1200/48-2U-P	28.6 A max	16 minutes	22 minutes	880 BTU/hr max	19 x 22 x 3.5
SEI-1800/48-2U-P	42.9 A max	8 minutes	16 minutes	1440 BTU/hr max	19 x 22 x 3.5

\* Short chassis (SC) is 16" deep

**To Order, Contact SEI Sales at 301-694-9601**  
Visit us on the web at [www.seipower.com](http://www.seipower.com)