

System Engineering International DC-UPS Series – 48Vdc



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

- SEI-250 – 4.5 Amps (250 watts)
- SEI-500 – 9.0 Amps (500 watts)
- SEI-750 – 13.5 Amps (750watts)

Up to **six individually controlled and monitored power outputs** are available through three different distribution modules. Each module has two fused connectors: 8-pin Molex, 2-pin AMP, or ¼ -20 terminal studs. Customer specified output modules are available.

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 **monitor 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 contact closures.



The SEI-500 and 750 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-8U) or, for extended battery backup (8 hours or more), a high capacity battery cabinet is added. Units have **user replaceable battery packs**, which can be replaced **without shutting down** the power unit.

SEI DC-UPS units are mountable on a wall, 19” rack, or din rails.

An optional **Power Management Package** is available that includes **SNMP** and remotely **managed switching** capability for up to **6 output power ports** as well as monitoring remaining battery holdover time and current levels.

Quantity customized versions of the DC-UPS are available.

Ordering Information

Model #	Description
SEI-250-X-(PM)	54 Vdc, 4.5 Amp Power Unit with integrated battery backup -1 output module
SEI-500-XX-(PM)	54 Vdc, 9.0 Amp Power Unit with integrated battery backup - up to 2 output modules
SEI-750-XXX-(PM)	54 Vdc, 13.5 Amp Power Unit with integrated battery backup -up to 3 output modules
Output Module Selection –two fused outputs per module. Replace X in model # with ‘A’, ‘M’, or ‘P’. For the optional Power Management Package, add ‘PM’ as a suffix to the model number.	
-A	Two, individually fused, 2-pin AMP® Mat-N-Lok™ connectors
-M	Two, individually fused, 8-pin Molex® Minifit™ connectors
-P	Two, individually fused, ¼ -20 terminal stud pairs

Technical Specifications – All Units

Electrical	Environmental	Standards
Input Voltage: 120 VAC +10%/-15% (240 VAC Factory Option) Output Voltage: On AC power: 54.4-55.2 Vdc On battery: 42-48 Vdc Efficiency: 80% @ full load Output Ripple: 250mv p-p	Temperature: -4°F to +104°F (-20 °C to +40 °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: UL 60950 Emissions: Complies 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")
			@ full load	@ half load		
SEI-250	3.0 A max	4.5 A max	70 minutes	150 minutes	190 BTU/hr max	19 x 5 x 14
SEI-500	6.0 A max	9.0 A max	30 minutes	70 minutes	380 BTU/hr max	19 x 5 x 19
SEI-750	9.0 A max	13.5 A max	20 minutes	45 minutes	570 BTU/hr max	19 x 5 x 19

To Order Contact SEI Sales at 1-800-765-4SEI (4734)
Visit us on the web at www.seipower.com