

OB NAME:	
TYPE:	
PART #:	
NOTES:	

SEESPS Series Inverters

Emergency Power Systems

DESCRIPTION:

- Mini-electrical inverter systems for powering up to 220W/250VA of incandescent, fluorescent, induction or LED lighting loads. Pulse width modulated (PWM) output design provides clean, 60 Hz. sinusoidal emergency power to loads.
- Models are available for surface, recessed or T-Grid mounting as required.

ELECTRICAL SPECIFICATIONS:

Input:

Input Voltages: 120 or 277VAC ±10%

Input Frequencies: 60Hz ±2%
 Input Protection: AC Line Fuses

Output:

- Output Voltages: (60Hz) 120 or 277VAC
- Efficiency Rating: 98% at full rated load (line)
- Waveform: Sinusoidal (digitally controlled)
- Static Voltage: ±5% during battery discharge. 0-100% linear load.
- · Output Frequencies: 60Hz. ±0.3Hz during emergency cycle
- Output Distortion: Less than 3% THD (linear load)
- Transfer Time: Less than 1.0 second
- Load Power Factor Range: 0.44 Lead to 0.44 Lag
- Minimum Loading: 0% of rated system capacity
- Output Protection: Line and inverter fuses

HOUSING:

- Heavy duty steel cabinet is finished in white based-on powder providing scratch and corrosion resistance
- Optional special color paint (-SP) finishes are available. Consult factory.

MOUNTING:

Surface Mount: (Standard Models): Surface mount models are designed for mounting to walls by means of keyhole slots provided in the back of the unit housing.

• Recess Mount: (SEESPS-55/125, SEESPS-110/125 Only): Recess models provide recess mounting holes on both sides of the enclosure. **T-Grid Mount:** (SEESPS-55/125, SEESPS-110/125 Only): Housing design allows simple drop-in installation between T-grid runs. Safety wires (supplied by others) are required for attachment to building structure.

WARRANTY / LISTING:

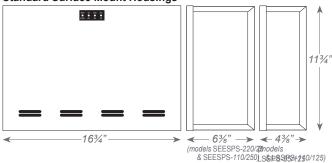
- **Unit:** (excluding lamps) Full coverage against defects in materials and workmanship for 3 years from date of shipment.
- Battery: 3 years full warranty plus an additional 7 years of prorated coverage.
- All models are UL924 Listed and meet NFPA 101 Life Safety Code, NEC, OSHA, Local and State Codes. Optional T-Grid models are plenum rated, to UL2043 and meets city of Chicago CCEA Requirements.
- UL Listed for damp locations (20° 30°C).
- Optional -CEC models are Certified to CEC Under Title 20 regulations
- FCC Part 15 Class A Compliant.

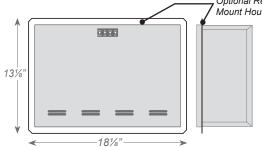




DIMENSIONS

Standard Surface Mount Housings







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The SEESPS Series is designed to provide up to 220W/250VA of emergency power to incandescent, fixtures. The SEESPS unit provides clean, sinusoidal AC power allowing it to be remotely up to 1000 feet away from the controlled fixture(s). Unlike a ballast fluorescent emergency pack, the SEESPS provides power to the input side of the fixture, (including the ballast) eliminating any chance of incompatibility.

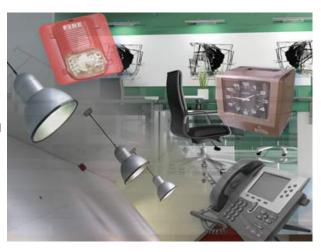
The SEESPS Series is designed primarily for surface mounting, however, the SEESPS-55/125 and SEESPS-110/125 models provide optional housings for recessed or ceiling T-Grid mounting if required. All SEESPS systems will provide emergency power output for a minimum of 90-minutes.

FEATURES:

- For powering incandescent, fluorescent, induction and LED fixtures*
- Sinusoidal output eliminates compatibility problems
- Universal 120/277VAC, 60Hz. input/output
- Unit capacities up to 220W/250VA
- "Soft Start" design reduces fixture inrush current
- Unit may be installed up to 1.000 feet from controlled fixture(s)
- Surface, recessed or T-Grid mount models
- Lumen output from fixture is 100% of nominal
- Unique design eliminates compatibility problems with LED drivers as well as fluorescent and induction ballasts
- Compatible with dimming ballasts
- Normally-ON and/or Normally-OFF load output
- Provisions for local switching capability Always on during emergency conditions regardless of local switch position
- Emergency fixtures can be ON, OFF or SWITCHED
- Solid-state, line latched low voltage disconnect provides protection against deep discharge
- Long life, maintenance-free lead-calcium battery
- Momentary test switch
- AC-ON, Charge-ON and Inverter-ON LED indicators
- * Consult factory for compatibility for other lamp types

OPERATION: Upon failure of the normal utility power the SEESPS unit is automatically turned on by a solid-state switching circuit and provides a minimum of 90-minutes of emergency power to the connected load. Lumen output will be maintained at 100% of the lamp's rating throughout the entire duration.

A solid-state low voltage disconnect circuit is used to protect the battery from being severely damaged by a deep discharge. When normal utility power is restored, the unit switches the load back to normal utility operation and the fully automatic, temperature compensated, dual mode charger begins to restore the battery; bringing it to full charge within UL924 speci fied parameters. A brownout sensing circuit insures proper operation during "low line" conditions.



WIRING: Connection to an unswitched AC circuit is required by the NEC. Wiring access is provided for by conduit knockouts in the unit housing. SEESPS-55/125 and SEESPS-110/125 models also provide knockouts in the back of the housing for rear wiring from standard electrical boxes when surface mounting.

LOAD COMPATIBILITY: SEESPS model's clean, sinusoidal AC output will operate incandescent lamps as well as all common fluorescent, induction and LED lamp types. Consult factory for compatibility with all other lamp types. Lighting loads are driven at 100% output for the entire emergency power cycle. This outstanding feature translates into greater occupant egress vision and safety.

SYSTEM OPTIONS

ADD SUFFIX	DESCRIPTION
-S	Surface Mount Housing
-R	Recess Mount Housing (3)
-T	Plenum Rated Ceiling T-Grid Mount Housing (3)
-SP	Special Housing Color (specify)
-4C	4 Output Circuit Switching (4)(5)
-RTS	Remote Test Switch Panel (4)(6)
-AO	Adjustable Output/Dimmer Bypass (4)(5)
-SDT	Self-Testing / Self-Diagnostics (4)
-CEC	Title 20 Compliant

- Other options available. Consult factory.
 Some options may impact product UL listing. Consult factory.
 Available with SEESPS-55/125 and SEESPS-110/125 models only.
- (4) Separate specification sheets are available on the -4C, -RTS, -SDT and -AO options. Consult factory.
 (5) Not available together
- Shipped separately as an accessory

MODEL	INPUT / OUT-			BATTERY		AC INPUT CURRENT		THERMAL OUTPUT in BTUs					
NUMBER	PUT VOLTS	WATTS	VA	Lbs.	Kg.	SYSTEM EFFICIENCY (full load)		(VDC)	CUR- RENT (amps)	120VAC (max)	277VAC (max)	ON-LINE	EMER- GENCY
SEESPS-55/125	120/277	55	125	30.0	14	98%	2	24	3.4	1.2	0.52	9	90
SEESPS-110/125	120/277	110	125	42.0	17	98%	2	24	5.7	1.2	0.52	9	95
SEESPS-110/250	120/277	110	250	45.2	21	98%	4	48	3.3	2.4	1.10	18	163
SEESPS-220/250	120/277	220	250	60.0	27	98%	4	48	5.6	2.4	1.10	18	167

* System weights shown include installed batteries

GENERAL SPECIFICATIONS



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BATTERIES AND CHARGER

Battery: Sealed Lead Calcium (10 year life) or Sealed Nickel-Cadmium (15 year life)

Battery Voltage: 12VDC for all LSMPS models

Runtime: 90-minutes standard. Other runtimes available, consult factory.

Battery Protection: Low Voltage Battery Disconnect protects the battery from being severely damaged by deep discharge during prolonged power failures. DC Overload

and Short Circuit Protection provided by a DC input fuse.

Charger

Charger Type: Fully automatic, temperature compensated, dual-mode charger

Power Consumption: 9W max. (All models) Recharge Duty Cycle: Meets UL924 requirements

Controls: Momentary test switch, AC-ON, Charge-ON and Inverter-ON LED

indicator lights

Safety Circuitry: AC Lockout prevents battery discharge prior to initial unit power-up. Brownout Protection automatically switches the unit to emergency mode when utility voltage is significantly reduced.

Environmental

Altitude: < 10,000 feet (3,000m) above sea level without derating.

Operating Temperature Range: Lead-Calcium Models: 20°C to 30°C Nickel-Cadmium Models: 0°C to 50°C

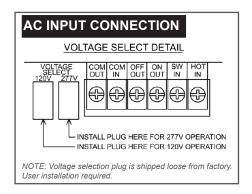
NOTE: Optimum system performance between 20°C and 30°C; temperatures outside of this range will affect battery

performance and life. Relative Humidity: 95% non-condensing

SYSTEM STATUS MONITORING PANEL



All SEEMPS systems provide a monitoring panel on the front of the unit to show operating status at all times. The panel provides a test switch for user initiated system tests and a 3-LED array that provides an intuitive visual indication of unit readiness.



IMPROVED AESTHETICS:

The SEESPS System's sinusoidal AC output design eliminates voltage drop and proximity concerns. This allows added flexibility in installation location as SEESPS units can be installed hundreds of feet from the units they power. This means SEESPS units to be located conveniently out of sight in closets or utility rooms without interrupting architectural aesthetics.

In lighting applications, no special or additional emergency fixtures are necessary. Simply designate and connect existing lighting fixtures, either interior or exterior, to the SEESPS unit for emergency operation eliminating the need for exposed, stand-alone emergency **luminaires**

SYSTEM ADVANTAGES: Compared to traditional discrete emergency lighting units, the SEESPS Series provides emergency illumination from a single power source resulting in lower maintenance overhead and routine testing expenses. SEESPS units lower installation costs by powering existing lighting fixtures during emergencies. And because connected fixtures are driven at full brilliancy, they provide far superior egress lighting and deliver improved occupant safety.