

SEEW3

8 to 50KW Central Lighting Inverter

The SEEW3 incorporates state-of-the-art technology with PWM (Pulse Width Modulated), double conversion design for emergency lighting applications. When utility power fails, the Inverter provides uninterrupted and reliable output power to the emergency lighting circuits, in compliance with UL924 Life Safety Code for 90 minutes of egress illumination. The SEEW3 is the best design solution for dependable emergency lighting power for a wide range of commercial and industrial applications.

Key Features:

- Double Conversion, fast transfer or stand by systems available to power all lamp types, including HID, LED
- Efficiency: 98% Standby - Fast Transfer / 94% On-Line (Typical)
- Automatic monthly and annual self-testing
- Latest technology microprocessor controlled electronics with PWM (Pulse Width Modulated) design for true Sign Wave output
- Continuous self-diagnostic and self-testing system
- LCD backlit panel for comprehensive monitoring of power line conditions and inverter status
- Optional: Remote monitoring, including the advanced Global Monitoring System (GMS)
- Battery Exerciser
- Optional Battery Sentinel Battery Monitoring System
- Sealed maintenance-free lead calcium batteries with 10 year Pro-Rata warranty. Specifications are subject to change without prior notification
- RS232 and RS485 (Optional)
- Modular cabinet design for ease of installation, small footprint with shallow 18" depth, convenient front access.
- Generator compatible
- *Standard Warranty

**Standard warranty is eighteen (18) months from ship date or twelve (12) months from start up, whichever occurs first. Optional second year warranty with factory performed preventative maintenance available.*

Power Rating: 8, 12, 16, 20, 24, 32, 40 and 50KW

Input Voltage: 208Y/120V or 480Y/277 VAC (+10% / -15%)

Output Voltage: 208Y/120V or 480Y/277 VAC

Output Frequency (Inverter Operation): 60Hz ± 0.5Hz

Voltage Regulation: ±3%, Regulated within CBEMA curve

Output Voltage Wave Form: Sine-Wave < 5% THD.

Efficiency: 94% Online / 98% Standby - Fast Transfer (Typical)

Power Factor: 0.8

Crest Factor: 3:1 Typical

Surge Protection: The Inverter will protect itself and the load against surges as defined in ANSI/IEEE C62.41 Categories A and B.

Isolation: Complete from line. Output neutral bonded to ground

Noise Isolation: -120dB Common-Mode, -60dB Transverse-Mode

Battery: Sealed, Maintenance-Free, Lead-Acid VRLA (Standard) 10 year

Recharge Time: Conforms to UL924 Standards

External Battery: Provisions for hardwire connection of optional external battery cabinets or DC source.

Environmental:

Humidity: 0 - 95% RH w/ no condensation

Operating Temperature: UPS: 0° to 40°C. (32° - 104°F) Battery: 20° to 25°C. (68° - 77°F)

Storage Temperature: -20° to 70°C (-4° to 158°)

Altitude: Up to 6,000 ft



Three Phase (UPS or IPS) Online or Fast Transfer (under 2ms) LED, Incandescent, Fluorescent, HID 208Y/120 or 480Y/277 VAC Listed to UL924 lighting and UL1778 UPS Standards

- Fast Transfer (Under 2ms)
- Secondary Auxiliary Circuit Breakers (Up to 20 positions): Normally On, Normally Off
- Normally Off w/ Delay, Trip Alarm
- Aux CB with Trip indicator
- Dry Contact Normally Open
- Dry Contact "Form C" Normally Open and/or Normally Closed
- Secondary Normally On/Off Terminal Block selection
- Remote status panel unit with audio alarm and silence switch
- Local Audio Alarm with Silence Switch
- Input current harmonic filter, 10% & 5% (This option will not be ordered with secondary auxiliary circuit breakers)
- Main Input and/or Output Circuit Breaker (with custom KAIC
- EMI Filter
- Delta Input (using external transformer)
- 4 position External wrap around Bypass Switch
- Battery Cabinet Fan Exhaust (also with Dry Contact)
- Battery Thermal Runaway with Dry Contact
- Battery to Normal power, Adjustable Time Delay
- 42 Position Panel Board: Attachable, free standing, ships loose (with main disconnect)
- Wireless battery monitoring system: Ability to monitor individual batteries including battery impedance
- Input Transient Voltage Surge Suppressor (TVSS)
- Harmonic Tolerance (up to K-50)
- Certified Zone 4 Seismic Bracket
- Extended Warranty and Service Plans
- 12 Hour Battery charger
- G-Battery (Sealed Lead-Calcium VRLA Battery): Maintenance free battery that requires no addition of water over the life of the battery. 20-years Warranty Life (may increase cabinet size) at 77°F (25°C). Warranty is two-years full replacement plus an additional eighteen years prorated
- **Global Monitoring System (GMS):**
 - LOCAL
 - Local PC via RS232 and RS485
 - Event logging up to 500 with touch screen
 - REMOTE
 - Web/SNMP: System status, measurement, alarm notification, event logging and password protected configuration.

Safety Agencies: CSA Listed to UL1778, UL924, NFPA101, NFPA70, NEC, and OSHA

Cabinet Size: Standard Cabinet Layout: Inverter Cabinet: 39"W x 68"H x 18"D Battery Cabinet: 51"W x 70"H x 30.5"D



Made in USA
 (BAA & BABA Compliance)
 Capable of meeting BAA & BABA requirements upon request!

ORDERING LOGIC

Model	Wattage	Voltage	Runtime
SEWR3	010 (8KW/10KVA)	B05LHT3-VA - 208Y/120V INPUT - 208Y/120V OUTPUT	(Blank) 90 Minutes - Standard Runtime
	015 (12KW/15KVA)	H09LHT3-VA - 480Y/277V INPUT - 480Y/277V OUTPUT	120 - 120 Minutes Runtime
	020 (16KW/20KVA)	H05LHT3-VA - 480Y/277V INPUT - 208Y/120V OUTPUT	
	025 (20KW/25KVA)	CUSTOM INPUT/OUTPUT VOLTAGES AVAILABLE UPON REQUEST	
	030 (24KW/30KVA)		
	040 (32KW/40KVA)		
	050 (40KW/50KVA)		
SEWR3-060	(50KW/62KVA)	B05LHT3 - 208Y/120V INPUT - 208Y/120V OUTPUT (FOR 060 UNIT ONLY)	
		H09LHT3 - 480Y/277V INPUT - 480Y/277V OUTPUT (FOR 060 UNIT ONLY)	
		H05LHT3 - 480Y/277V INPUT - 208Y/120V OUTPUT (FOR 060 UNIT ONLY)	

Model	BTU	INVERTER CABINET	BATTERY CABINET
SEWR3-010 (8KW/10KVA)	3032	39W X 68H X 18D / 1083LBS	39W X 68H X 18D / 1392LBS (1 CABINET)
SEWR3-015 (12KW/15KVA)	4549	51W X 70H X 30.5D / 1446LBS	51W X 70H X 30.5D / 3224LBS (1 CABINET)
SEWR3-020 (16KW/20KVA)	6066	51W X 70H X 30.5D / 1679LBS	51W X 70H X 30.5D / 3560LBS (1 CABINET)
SEWR3-025 (20KW/25KVA)	7582	51W X 70H X 30.5D / 1679LBS	51W X 70H X 30.5D / 4545LBS (1 CABINET)
SEWR3-030(24KW/30KVA)	9098	51W X 70H X 30.5D / 1719LBS	51W X 70H X 30.5D / 4568LBS (1 CABINET)
SEWR3-040 (32KW/40KVA)	12131	51W X 70H X 30.5D / 2066LBS	51W X 70H X 30.5D / 8664LBS (2 CABINETS)
SEWR3-050 (40KW/50KVA)	15164	51W X 70H X 30.5D / 2463LBS	51W X 70H X 30.5D / 8800LBS (2 CABINETS)
SEWR3-060 (50KW/62KVA)	18000	51W X 70H X 30.5D / 2565LBS	51W X 70H X 30.5D / 12700LBS (2 CABINETS)

* Total Weight/BTU are approximate. *Standard Battery Back-up time is 90minutes @ full load. Other back-up times are available - contact factory.*

Consult Factory for more features and choices of remote communication. Consult Factory for exact number of battery cabinets