UL924 ELEVATOR EMERGENCY BACKUP

Wride

ASCENT

UP TO 240KW

ELEVATOR EMERGENCY BACKUP POWER

Discover our innovative 24/7 monitored backup inverter system for Elevators. Revolutionizing emergency preparedness in response to the IBC 1009 & IFC naming Elevators as part of Emergency Evacuation/Life Safety Systems and requiring 2 Hours of emergency backup.

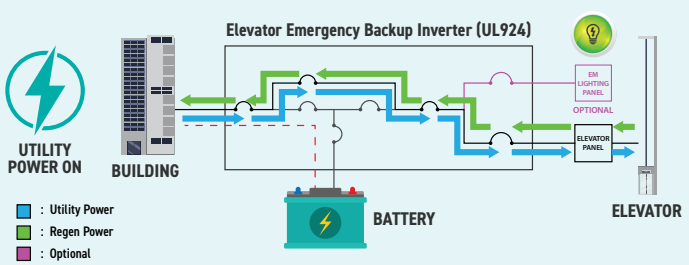
ASCENT BREAKTHROUGHS:

INTRODUCING THE REGEN AGENT:

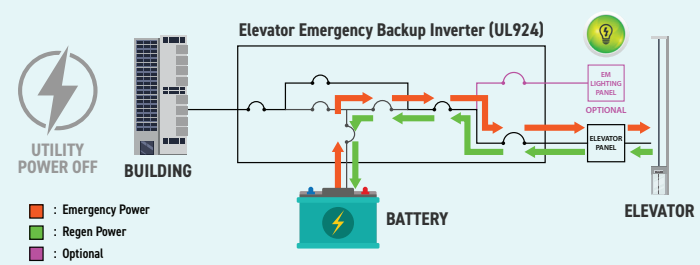
- Directs Regen Power to the Building (Normal Operation)
- Directs Regen Power to Charge the Batteries (EM Operation)
- No More Need for a Resistor Bank (A.K.A. 'The Toaster')

- **Compatible with:**
  - Non-Regenerative Elevators
  - Regenerative Elevators
  - Hydraulic Elevators
- **24/7 Electronics Self-Diagnostic Routines Ensure Unwavering Readiness:**
  - Email and SMS Notifications options available.
- **Combine Egress Lighting for a Single Emergency Egress Solution (optional).**
- **Provides Cost Savings Over Generators by:**
  - Integrating the Automatic Transfer Switch into the Ascent.
  - Reducing Footprint Size.
  - No More Costly On-Site Testing and Maintenance.
- **Automatic Monthly and Annual Self-Testing:** (Remote Monitoring Available)
  - Meet NFPA Standards Effortlessly with Automated Monthly and Annual Self-Testing.
  - Local Data Logging.
- **Aligns with Sustainability Objectives by:**
  - Providing Clean Energy
  - Reducing HVAC Needs
  - Removing Environmentally Damaging Fuel Tanks
- **Monitor Battery Health and Manage Responses to Environmental Conditions (optional).**

UTILITY / REGEN



EMERGENCY / REGEN



MADE IN USA

ISO 9001 CERTIFIED

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Ascent SPECIFICATIONS

Power Rating:
24, 32, 40, 50, 64, 80, 96, 128, 160, 192 and 240kW

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

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

Output Frequency (Inverter Operation):
60Hz ± 7Hz

Voltage Regulation:
±1% at 100% unbalanced load

Output Voltage Wave Form:
Sinusoidal < 2% THD.

Crest Factor: 3:1 Typical

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

Isolation: True galvanic isolated

Battery: Sealed, Maintenance-Free, VRLA Standard 10 Year

Recharge Time: Varies per KVA and conforms to UL924

Environmental:

Humidity: 0 - 90% (non-condensing)

Operating Temperature:
UPS: 0˚ to 40˚C. (32˚ - 104˚F)
Battery: 20˚ to 25˚C. (68˚ - 77˚F)
Higher temperature batteries are available for special order.

Storage Temperature:
-20˚ to 70˚C. (-4˚ - 158˚F)
Electronics only.

Altitude: Up to 5,000 ft

Cabinet Sizes:

	(Width")	(Height")	(Depth")
*24-50kW:	34"	75"	31.5"
*64-128kW:	55.5"	75"	31.5"
Battery Cab:	51"	70"	30.5"

* The electronics cabinet unit must be sized to handle system inrush current, while the battery cabinet must provide backup time for steady-state current.

KVA/KW	*INPUT	* OUTPUT	MODEL NUMBERS	DC Voltages	WEIGHTS (LBS) CABINETS	
					UPS	EACH BATTERY (#) OF CAB.
30/24	208Y/120V	208Y/120V	WA-030B05ELT3	348	1260 (1)	4535 (1)
	480Y/277V	480Y/277V	WA-030H09ELT3			
40/32	208Y/120V	208Y/120V	WA-040B05ELT3	348	1414 (1)	3416 (2)
	480Y/277V	480Y/277V	WA-040H09ELT3			
50/40	208Y/120V	208Y/120V	WA-050B05ELT3	348	1525 (1)	3867 (2)
	480Y/277V	480Y/277V	WA-050H09ELT3			
60/50	208Y/120V	208Y/120V	WA-060B05ELT3	348	1724 (1)	4923 (2)
	480Y/277V	480Y/277V	WA-060H09ELT3			
80/64	208Y/120V	208Y/120V	WA-080B05ELT3	348	2276 (1)	3707 (1) 4729 (2)
	480Y/277V	480Y/277V	WA-080H05ELT3			
100/80	208Y/120V	208Y/120V	WA-100B05ELT3	348	2984 (1)	3416 (2) 4923 (2)
	480Y/277V	480Y/277V	WA-100H09ELT3			
120/96	208Y/120V	208Y/120V	WA-120B05ELT3	348	3138 (1)	4923 (4)
	480Y/277V	480Y/277V	WA-120H09ELT3			
160/128	208Y/120V	208Y/120V	WA-160B05ELT3	348	3868 (1)	**
	480Y/277V	480Y/277V	WA-160H09ELT3			
200/160	208Y/120V	208Y/120V	WA-200B05ELT3	348	5746 (1)	**
	480Y/277V	480Y/277V	WA-200H09ELT3			
**240/192	208Y/120V	208Y/120V	WA-240B05ELT3	348	6229 (1)	**
	480Y/277V	480Y/277V	WA-240H09ELT3			
**300/240	208Y/120V	208Y/120V	WA-300B05ELT3	348	7293 (1)	**
	480Y/277V	480Y/277V	WA-300H09ELT3			

* For other voltages consult factory.
** For other capacities consult factor.

Specifications are subject to change without prior notification.

Standard Features

- Integrated Automatic Transfer Switch:
  - Send Control Signals to Elevator System:
  - Emergency to Utility Power Time Delay.
- 2-Hour Backup
- Form C Dry Contacts (Normally Closed)
- Independent Phase Control Circuitry:
  - Phase Imbalance Tolerant.
  - Will Operate Completely Unbalanced.
- Pulse Width Modulation Rectifier:
  - 06-Pulse (24kW to 64kW).
  - 12-Pulse (80kW and above).
- Main Input/Output Circuit Breakers.
- Transient Voltage Surge Suppression (TVSS).
- LCD Display for Viewing Unit Status and Events.
- Modular Design for Ease of Service.
- Multiple CPU Design:
  - Individual CPUs for Control Circuit Functions.
  - Parallel Redundancy for Critical Circuits.
- Intelligent Charger w/ Temperature Compensation.
- Redundant Power Supply.
- Integral Protection Against Operator Error.
- Power Conditioning Using PWM Methodology.
- Output Isolation Transformer for True Galvanic Isolation on the Load Side of the Inverter.
- Cold Start Function:
  - Power Up the Unit Using Its Batteries.

Options

- Regen Agent™ (Regen Management System)
  - Redirects Regenerative Power to:
    - The Building (Normal Operation)
    - Charge the Batteries (Emergency Operation)
- Integral Sub Main Output Circuit Breakers (Consult Factory)
- Delta Input
- Dry Contacts Normally Closed
- RS-232 / RS-485 Connectors for External Modules:
  - Remote Status Panel UPSCAN™
  - Software for PC Monitoring UPSCOM™
  - Auto Dialing Module UPSCALL™
  - Battery Monitoring Module DCMAN™
- Event Logging up to 500 Events
- GMS 2: Remote Monitoring via LAN
- Wireless Battery Monitoring System: (Monitors Battery Health, Including Impedance)
  - String Monitoring
  - Individual Battery Monitoring
- Thermal Runaway Control (IFC 1206.2)
- Battery Cabinet Exhaust Fan (IFC 1206.2)
- Battery Cabinet Exhaust Fan Dry Contact & Audible Alarm (IFC 1206.2)
- **Integral Emergency Egress Lighting Backup**
- **Independent Elevator/Egress Lighting Sub-feed Breakers**

Consult Factory for more features and choices of remote communication.

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