



POWER WAVE ELEVATE

UL924 ELEVATOR BACKUP SYSTEM



THE ALL-IN-ONE ELEVATOR BACKUP SOLUTION

Designed to adhere to strict regulations, the Power Wave Elevate safeguards against downtime during emergencies. Complying with IBC, IFC, NEC 700 & NEC 701 guidelines, it ensures 2 hours of uninterrupted elevator functionality during emergencies and can support non-regen and regen elevators. Specifically tailored for elevator systems, its versatile design and exceptional reliability make it the ultimate solution to meet all emergency backup needs. Additionally, it's designed to help building owners meet ICC 1009.2.1 requirements.



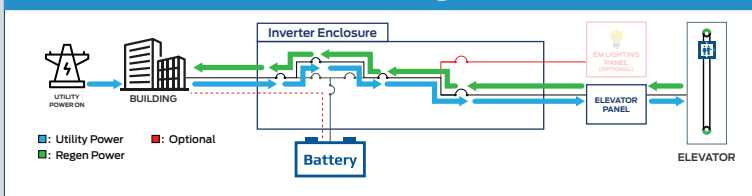
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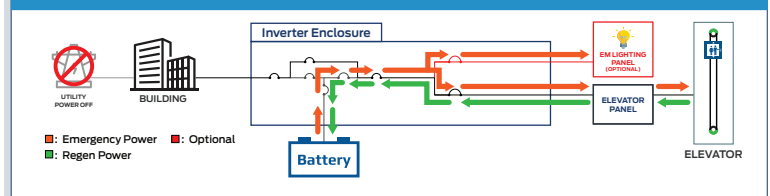
BENEFITS OF POWER WAVE ELEVATE

- ✔ Designed to meet IBC 1009 and IFC Compliance
- ✔ Keep Elevators Functioning During Emergencies
- ✔ Use Elevator Regenerative Power to Recharge Backup Power and Extend Backup
- ✔ Standard 2 Hours of Backup Power for Elevators
- ✔ Can be Combined with Emergency Lighting (optional) for Cost & Space Savings
- ✔ No ATS Switch Needed
- ✔ Compatible with Regenerative, Non-Regenerative and Hydraulic Elevators
- ✔ Local and Remote Monitoring (optional)
- ✔ Automatic Self-Testing with Report Logs
- ✔ Battery Health Monitoring
- ✔ Resistor Bank Not Required
- ✔ Normally Closed Dry Contacts Standard for Elevator Communication

Normal Power / Regen Mode



Emergency Power / Regen Mode



MEET IBC 1009 & IFC COMPLIANCE



COMPATIBLE W/ VARIOUS ELEVATOR TYPES:

- REGENERATIVE
- NON-REGENERATIVE
- HYDRAULIC

UP TO
240KW

THREE PHASE

REGEN MANAGER

Efficiently directs regenerative power to building or battery charging, depending on utility status, eliminating the need for a resistor bank.



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120-E-DS-03-24



CODES &
STANDARDS
COMPLIANT



SPECIFICATIONS

Power Wave Elevate

Elevator Backup System

Three Phase,
up to 240kW / 300kVA

SAFETY STANDARDS

UL924, UL1778, NFPA101, NFPA70, NEC 700, NEC 701
Listed to UL924 and UL1778 Standards

INPUT

AC Voltage: $\pm 15\%$
Frequency: 50/60Hz ± 7

OUTPUT

AC Voltage Regulation: 1-3% typically
Wave Form: Sinusoidal
Harmonic Distortion: Less than 2% THD
Frequency Tolerance: ± 0.1 Hz

PROTECTION

Overload: Less than 110% Load: Continuous,
125-150%: 5 min, Higher than 150%: 30 sec

BATTERY

Battery: Sealed, Maintenance-free, Lead-Acid, VRLA (Standard) 10 years. Long Life 20 years (optional)
Recharge Time: Varies per kVA, conforms to UL924

NOISE ISOLATION

Isolation: True Galvanic Isolated

ENVIRONMENT (Electronics)

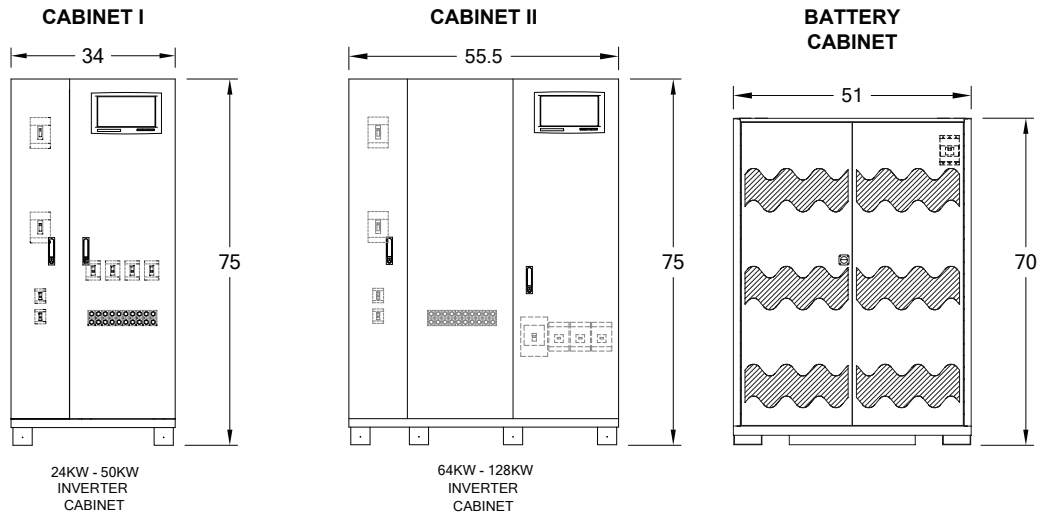
Operating Temperature: 0° to 40°C (32° - 104°F)
Storage Temperature: -20° to 70°C (-4° - 158°F)
Humidity: 0% to 90% (non-condensation)
Altitude: Up to 5,000 ft
Audible Noise: Less than 65dBA at 1 meter/39.4 in.

Cabinet Dimensions

(Inches) Width x Height x Depth

Cabinet I 34"W x 75"H x 31.5"D
Cabinet II 55.5"W x 75"H x 31.5"D
Battery Cabinet 51"W x 75"H x 30.5"D

Each model comes with both inverter and battery cabinets.
Larger capacity will require additional battery cabinets.
Size and weight will vary depending on capacity. For units requiring larger capacities, please consult the factory.



Model Numbers

Unit Name	Capacity kVA/kW	Input (VOLTS)	Output (VOLTS)
PW Power Wave Elevate	030 30/24	B 208Y/120	05ELT3 208Y/120
	040 40/32	H 480Y/277	09ELT3 480Y/277
	050 50/40		
	060 60/50		
	080 80/64		
	100 100/80		
	120 120/96		
	160 160/128		
200 200/160			
240 240/192			
300 300/240			

kW equates to real power.

BTU / Weight

Capacity kVA/kW	BTU/HR		STANDARD					
	STANDARD	GREEN	Cabinets - 120MIN (LBS) (# OF CABINETS)			Cabinets - 90MIN (LBS) (# OF CABINETS)		
			INVERTER	TOP	FRONT	INVERTER	TOP	FRONT
30/24	10120	4310	1260 (1)	4535 (1)	5034 (1)	1260 (1)	4361 (1)	4135 (1)
40/32	12131	5747	1414 (1)	3416 (2)	3990 (2)	1414 (1)	3213 (2)	5034 (1)
50/40	15164	5687	1525 (1)	3867 (2)	4153 (2)	1525 (1)	3427 (2)	3990 (2)
60/50	18197	6824	1724 (1)	4923 (2)	5034 (2)	1724 (1)	3867 (2)	4135 (2)
80/64	24263	9099	2276 (1)	3707 (1) 4729 (2)	5034 (3)	2276 (1)	4615 (2)	5034 (2)
100/80	30329	11373	2984 (1)	3416 (2) 4923 (2)	5034 (3)	2984 (1)	3707 (1) 4729 (2)	5034 (3)
120/96	32395	10130	3138 (1)	4923 (4)	5034 (4)	3138 (1)	3416 (2) 4923 (2)	5034 (3)
160/128	43193	13507	3868 (1)	* *	5060 (5)	3868 (1)	* *	5060 (4)
200/160	53992	16884	5746 (1)	* *	5060 (6)	5746 (1)	* *	5060 (5)
240/192	64790	20206	6229 (1)	* *	*	6229 (1)	* *	5060 (6)
300/240	80988	25326	7293 (1)	* *	*	7293 (1)	* *	*

The approximation is worst case BTU output, measured during recharge following a discharge.

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.



ORDERING GUIDE

ORDER NUMBER **DOES NOT** REFLECT MODEL NUMBER. PLEASE CONSULT FACTORY.

PROJECT NAME :

REP / DISTRIBUTOR :

ELECTRICAL DESIGNER / ENGINEER :

DATE :

Power Wave Elevate

Example: PW-EL-R-50-B05-S120-N08A40-SFB1(20)-FC-GMS3-PM2

PW-EL

