

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.



OnLine rower

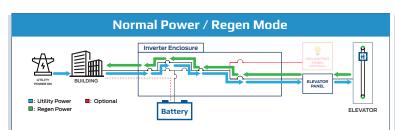
Scan QR Code

For the latest product news, technical specs, drawings, guides and manuals.

BENEFITS OF POWER WAVE ELEVATE

- Designed to meet IBC 1009 and IFC Compliance
- 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

- ☑ Battery Health Monitoring
- Mark Resistor Bank Not Required
- Normally Closed Dry Contacts Standard for Elevator Communication



Emergency Power / Regen Mode Inverter Enclosure BUILDING ELEVATOR ELEVATOR ELEVATOR

MEET IBC 1009 & IFC COMPLIANCE



COMPATIBLE W/ VARIOUS ELEVATOR TYPES:

- REGENERATIVE
- NON-REGENERATIVE
- HYDRAULIC



REGEN MANAGER

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



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

INPLIT

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

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

RATTERY

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.

BATTERY

Cabinet Dimensions

(Inches) Width x Height x Depth

Cabinet I

34"W x 75"H x 31.5"D

Cabinet II

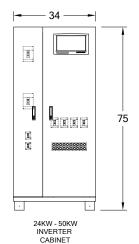
55.5"W x 75"H x 31.5"D

Battery Cabinet

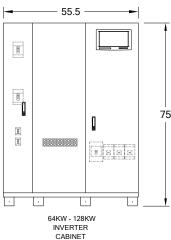
51"W x 75"H x 30.5"D

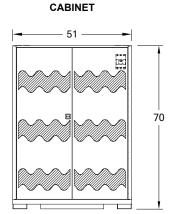
Each model comes with both inverter and battery cabinets. Larger capacity will require additional battery cabinets. Size and weight will vary depending on capacity. For units requiring larger capacities, please consult the factory.

CABINET I



CABINET II





Model Numbers

Unit Name	Capacity	Input	Output
	KVA/KW	(VOLTS)	(VOLTS)
PW Power Wave Elevate	030 30/24 040 40/32 050 50/40 060 60/50 080 80/64 100 100/80 120 120/96 160 160/12 200 200/16 240 240/19 300 300/26	8 60 2	

kW equates to real power.

BTU / Weight

				STANDARD)			
Capacity	BTU/HR		Cabinets - 120MIN (LBS) (# OF CABINETS)			Cabinets - 90MIN (LBS) (# OF CABINETS)		
KVA/KW	STANDARD	GREEN	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

PROJECT NAME:	
REP / DISTRIBUTOR :	

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

Power Wave Elevate

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

ELECTRICAL DESIGNER / ENGINEER: DATE:

PM₂

WARRANTY

& SERVICES

Blank: Standard Onsite

Startup and Warranty

EXT: Additional One

(Includes First Year

PM (2-3): Onsite

Years)

of Start Up

up to 8 hours

Year Extended Warranty

Preventative Maintenance)

Preventative Maintenance

T1: 4 Hour Training at Time

T2: Additional Training day

(Once Per Year, up to 3

PICK ANY:

ADDITIONAL:

PW-EL

MODEL **SERIES**

PW-EL

PW-EL:

Power Wave Elevate

ELEVATOR TYPE

R: Regen Elevator NR: Non-Regen Elevator H: Hydraulic Elevator

CAPACITY KW/KVA

50

24/30 24: 32: 32/40 40: 40/50

50: 50/60 64/80 64:

80/100

96/120 96: **128:** 128/160 **160:** 160/200

80:

192: 192/240 **240**: 240/300

OUTPUT

VOLTAGE INPUT/OUTPUT

INPUT

B05

B - 208Y/120 **05** - 208Y/120 **H** - 480Y/277 **09** - 480Y/277

*Input 'B' not compatible with Output '09'

BATTERY TYPE

S120

\$120: Standard @ 120min

* **L120:** Long Life @ 120 min **H120:** Hi Temp @ 120 min **U120:** USA @ 120 min

(required for BAA and BABA compliance) **\$90:** Standard @ 90min

* **L90:** Long Life @ 90 min **H90:** Hi Temp @ 90 min

U90: USA @ 90 min (required for BAA and BABA compliance)

*Long Life 20 Yr. Pro Rata Battery.

N08A40

AUX BREAKERS (UL1077)

AUX BREAKERS EXAMPLE

N 08 A 40

OUTPUT

N: Normally ON F: Normally OFF

**FD: Normally OFF w/ Time Delay

BREAKERS

*01 - 20 (Max 20)

AMP RATING***

SFB1(20)

10, 15, 20, 25, 30, 40, 50, 60

STANDARD: 20 AMP

VOLTAGE A - 120V. 1P

B - 208V. 2P

C - 240V. 2P

D - 277V. 1P

E - 480V. 2P

F - 208Y/120, 3P

G - 480Y/277, 3P

* Only up to 20 poles.

** Allows you to have individual circuits remain on battery even when utility is restored for a period of time. Must be a normally OFF circuit.

***Consult factory for custom amp rating.

2 SUBFEED OUTPUT BREAKERS

SFB1(#): Sub Feed Breaker 1 (#): Desired Amps **SFB2(#):** Sub Feed Breaker 2 (#): Desired Amps FC + GMS3

OPTIONS

PICK ANY:

X: Seismic Mounting

LCR20A(#): Load Control Relay, Single Flex Stud Mounting (#): Qty

LCR20(#): Load Control Relay, No Flex (#): Qty

EB: Ex. Maintenance Wraparound Bypass Switch **TVSS:** Input Transient Voltage Surge Suppressor (Class C)

SCCR: 65 KAIC Total System Short Circuit Current Rating

DS: Drip Shield Hood

CL: Corbin Lock

BATTERY OPTIONS FC: Fast Charge (12 hrs or less)

TR: Thermal Runaway Control (IFC 1206.2)

MONITORING OPTIONS

DO: Dry Contacts Open Signal* *Normally Closed Standard

A: Local Audible Alarm with Silencer Switch

CP: RS 232 Connecting Port

P: Remote Status Panel (Hard Wired with Extended Cable)

SYSTEM TRANSFER

TD(B): User Selectable Time Delay to Battery for Capacitor Discharge During EM (Standard 45 Milliseconds)

TD(U): User Selectable Time Delay Back to Utility During Power Restoration for Facility Inrush

REGEN POWER OPTIONS

RGN: Regen Manager (for regenerative elevators)

BATTERY MONITORING SYSTEM (BMS)

PICK ONE:

SM: Strina Monitorina BM: Battery Monitoring **BM-TS:** Temperature Sensor

GLOBAL MONITORING SYSTEM (GMS) PICK ONE:

GMS 2: Testing Logs with Remote Accessibility Through Local Network

GMS 3: Testing Logs with Remote Accessibility through Local Network and GPRS for Cellular Text Alerts

