

UL924 Certified Elevator Backup Inverter

POWER RIDE ELEVATOR REGEN

THREE PHASE, UP TO 240KW

Experience sustainability with Perfect Power's state-of-the-art microprocessor battery backup inverters. Harness regenerative power from elevators to charge your batteries and extend backup time. Get 24/7 local and remote status updates with event logging and automatic self-testing to meet UL924 safety standards!

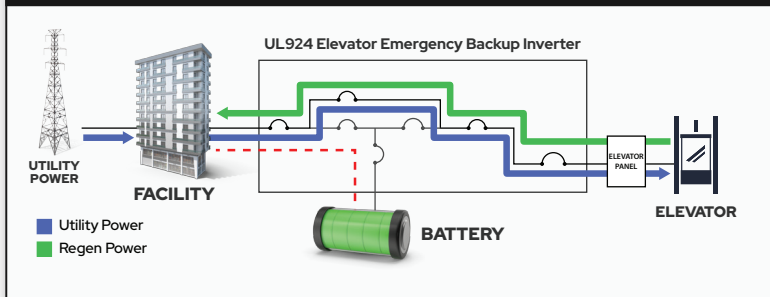
IBC 1009 & IFC REQUIRE BUILDINGS TO HAVE ELEVATOR BACKUP POWER FOR TENANTS



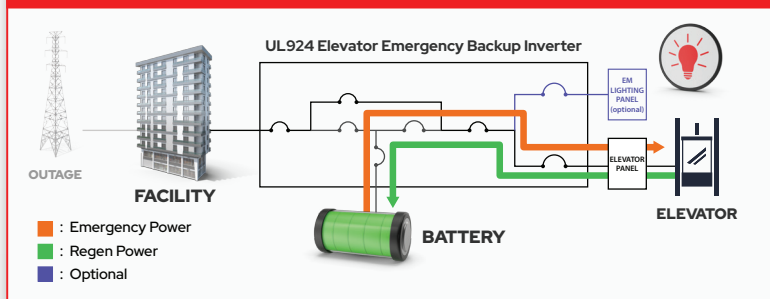
REGEN MASTER

- DIRECT REGEN POWER SENT TO BUILDING
- DIRECT REGEN POWER SENT TO CHARGE BATTERY
- NO NEED FOR RESISTOR BANK
- BUILT IN TRANSFER SWITCH WITH AUTOMATIC TRANSFER SWITCH

NORMAL POWER / REGEN



EMERGENCY POWER / REGEN



WHY ELEVATOR REGEN?



COST SAVINGS & EFFICIENCY

- Cost savings over generators
- Compact footprint
- No need for fuel tank
- No need for toaster (resistor bank)
- Built in ATS



PERFORMANCE OPTIMIZATION

- No oversizing needed
- HVAC reduction
- Regenerative Power Manager



CONVENIENCE & COMPATIBILITY

- Compatible with Regenerative, Non-Regenerative & Hydraulic Elevators
- Integrated ATS Switch
- Instant Transfer Speed



MAINTENANCE & MONITORING

- Cost-effective testing & maintenance
- Local/remote system health monitoring
- Automatic self-testing with report log



RELIABILITY & SUSTAINABILITY

- 120 minutes of emergency backup power
- Eco-friendly green power solution
- Integrated egress lighting
- Battery Thermal Runaway (IFC 1206 Compliance)



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TECHNICAL SPECIFICATIONS

POWER RIDE ELEVATOR REGEN

EMERGENCY
ELEVATOR
INVERTERS

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: 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[†]H

***Cabinet Size (UPS Only):**

24-50kW: 34"W x 75"H x 31.5"D

64-128kW: 55.5"W x 75"H x 31.5"D

†Battery Cabinet: 51"W x 70"H x 30.5"D

[†]The electronics cabinet should be sized for inrush current, while the battery cabinet should ensure backup during steady-state current.

STANDARD FEATURES

- Capable to operate with Complete phase unbalance (independent phase control circuitry)
- Field Selectable Double Conversion or Green Mode (Fast Transfer)
- Standard monitoring:
 - % Load Indicator
 - Phase rotation error
- 6-Pulse or 12-Pulse Controlled Rectifier (12-Pulse for 80 kVA & up)
- Input and Output Main Circuit Breakers
- Data and Events LCD Display
- Built-in Transient Voltage Surge Suppressor
- EMI Suppression
- PWM Methodology (DSP)
- Internal Maintenance Bypass
- Isolation Transformer at the output for True Galvanic Isolation
- Modular design to facilitate ease and speed of service
- Cold Start Function: Unit can be started with battery power only without an AC source
- Multi-CPU Design: Several CPUs are employed in the control circuit, and critical functions are designed with parallel redundancy for added reliability
- Protection Against Misuse: Circuit breaker on/off sensor and power supply sensor ensure that the user cannot cause unit damage due to operator error
- Intelligent Charger: The unit will automatically recharge with temperature compensation
- Intelligent Battery Test
- Redundant Power Supply

OPTIONS

- Can Be Combined with Emergency Lighting Backup
- Sub-feed Breakers for Elevator
- Battery Overflow Protection
- RS-232 / RS-485 for various accessory
- 8 Dry Contacts: INVON, OVL, FAULT, SS, BYPASS, BACK-UP, BATL, COM
- Form C Dry Contact N/O (standard) or N/C (available at the time of order)
- Software for PC monitoring UPSCAN™
- Delta Input
- Battery Monitoring module DCMAN™
- *Output Aux CB's (Up to 20 Positions)
- WIFI Monitoring (GMS)
- Zone 4 Seismic Cabinet Brackets and HCAI Certified
- Wireless Battery Monitoring
- Event Logging up to 500 events
- Battery Cabinet Fan Exhaust
- Battery Cabinet Fan Exhaust Dry Contact
- 100% Unbalancing Load
- Long Life Batteries
- Battery Thermal Runaway Control (IFC 1206.2)

Consult factory for more features and choices of remote communication.

KVA/ KW	INPUT - OUTPUT VOLTAGES	MODEL NUMBERS	DC Voltages	WEIGHTS (LBS) CABINETS	
				UPS	EACH BATTERY (#) OF CAB.
30/24	208/120 - 208/120 480/277 - 480/277	PD030B05ELT3 PD030H09ELT3	348	1260 (1)	4535 (1)
40/32	208/120 - 208/120 480/277 - 480/277	PD040B05ELT3 PD040H09ELT3	348	1414 (1)	3416 (2)
50/40	208/120 - 208/120 480/277 - 480/277	PD050B05ELT3 PD050H09ELT3	348	1525 (1)	3867 (2)
60/50	208/120 - 208/120 480/277 - 480/277	PD060B05ELT3 PD060H09ELT3	348	1724 (1)	4923 (2)
80/64	208/120 - 208/120 480/277 - 480/277	PD080B05ELT3 PD080H09ELT3	348	2276 (1)	3707 (1) 4729 (2)
100/80	208/120 - 208/120 480/277 - 480/277	PD100B05ELT3 PD100H09ELT3	348	2984 (1)	3416 (2) 4923 (2)
120/96	208/120 - 208/120 480/277 - 480/277	PD120B05ELT3 PD120H09ELT3	348	3138 (1)	4923 (4)
160/128	208/120 - 208/120 480/277 - 480/277	PD160B05ELT3 PD160H09ELT3	348	3868 (1)	**
200/160	480/277 - 480/277	PD200B05ELT3 PD200H09ELT3	348	5746 (1)	**
*240/192	480/277 - 480/277	PD240B05ELT3 PD240H09ELT3	348	6229 (1)	**
*300/240	480/277 - 480/277	PD300B05ELT3 PD300H09ELT3	348	7293 (1)	**

* Units are available only upon request.

Specifications are subject to change without prior notification.

