

PIERBORNE

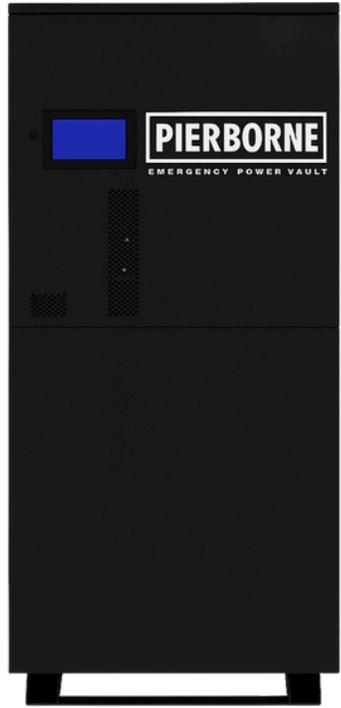
UL924 SEL INVERTER

SINGLE PHASE EMERGENCY LIGHTING INVERTER SYSTEM
0.675 kW-10.0 kW | 120/208/240/277/480V



APPLICATIONS

- ✓ Educational Facilities
- ✓ Healthcare Facilities
- ✓ Bridges & Tollbooths
- ✓ Sports Arenas
- ✓ Retail Stores & Movie Theaters
- ✓ Transit Infrastructure
- ✓ Hotels & Casinos
- ✓ Office and Industrial Complexes
- ✓ Government Buildings
- ✓ Data Centers, Colocations & Mission Critical



The **SAFE CHOICE** for your emergency egress building lighting support

PRODUCT SELECTION CONVENTION

EXAMPLE MODEL NUMBER

SEL 011 1 1 5 A 2 A A X 05 C 02 Q X 00

Model		Capacity	Voltage			Options					Output Protection Devices				
Model	Capacity ^{5,6,7}	Input Voltage	Output Voltage		Cabinet	Communication ⁴	Maintenance Bypass	Runtime	Normally Off Hold	Output Circuit Breakers				Output Circuit Breaker Monitoring ³	Custom Options
			1	2						Output Voltage 1		Output Voltage 2			
										Qty	Type ¹	Qty	Type ²		
SEL	006 0.675 kW	1 120VAC	1 120VAC	0 Single Output	A NEMA 1	1 None	A Standard	A 90 mins	X None	00-20	X None	00-20	X None	X None	00 None
	009 0.900 kW	2 208VAC	2 208VAC	1	B Seismic Kit	2 SNMP Card	B Internal Maintenance Bypass Switch	B 120 mins	1 Output 1	A 15A, 1-Pole	A 15A, 1-Pole	A 15A, 1-Pole	A 15A, 1-Pole	M OCB Monitoring	DF Dead front panels
	013 1.35kW	3 240VAC	3 240VAC	120VAC	C NEMA 3R	3 Dry Contacts ⁸ (serial)		C 60 mins		B 20A, 1-Pole	B 20A, 1-Pole	B 20A, 1-Pole	B 20A, 1-Pole		LB Batteries shipped separately
	018 1.8 kW	4 480VAC	4 480VAC	2	D NEMA 4X			D 240 mins		C 25A, 1-Pole	C 25A, 1-Pole	C 25A, 1-Pole	C 25A, 1-Pole		
	027 2.7 kW	5 277VAC	5 277VAC	208VAC	E MINI FRAME	4 Dry Contacts ⁸ (hardwired)		E 180 mins		D 30A, 1-Pole	D 30A, 1-Pole	D 30A, 1-Pole	D 30A, 1-Pole		78 UL 1778 Only
	042 4.2 kW			3	F NEMA 12	5 Environmental Kit		F 30 mins		E 35A, 1-Pole	E 35A, 1-Pole	E 35A, 1-Pole	E 35A, 1-Pole		DM Dimmer dry contacts ³
	060 6.0 kW			5						F 40A, 1-Pole	F 40A, 1-Pole	F 40A, 1-Pole	F 40A, 1-Pole		
	080 8.0 kW			5						G 50A, 1-Pole	G 50A, 1-Pole	G 50A, 1-Pole	G 50A, 1-Pole		
	100 10.0 kW			277VAC						H 60A, 1-Pole	H 60A, 1-Pole	H 60A, 1-Pole	H 60A, 1-Pole		
										K 15A, 2-Pole	K 15A, 2-Pole	K 15A, 2-Pole	K 15A, 2-Pole		
										L 20A, 2-Pole	L 20A, 2-Pole	L 20A, 2-Pole	L 20A, 2-Pole		
										M 25A, 2-Pole	M 25A, 2-Pole	M 25A, 2-Pole	M 25A, 2-Pole		
										N 30A, 2-Pole	N 30A, 2-Pole	N 30A, 2-Pole	N 30A, 2-Pole		
										P 35A, 2-Pole	P 35A, 2-Pole	P 35A, 2-Pole	P 35A, 2-Pole		
										Q 40A, 2-Pole	Q 40A, 2-Pole	Q 40A, 2-Pole	Q 40A, 2-Pole		
										R 50A, 2-Pole	R 50A, 2-Pole	R 50A, 2-Pole	R 50A, 2-Pole		
										S 60A, 2-Pole	S 60A, 2-Pole	S 60A, 2-Pole	S 60A, 2-Pole		
										T 80A, 2-Pole	T 80A, 2-Pole	T 80A, 2-Pole	T 80A, 2-Pole		

¹ Up to 10 poles can be housed on the 0.675 - 2.7 kW inverters
² Up to 20 poles can be housed on the 4.2 - 18.0 kW inverter
³ Dimmer Option uses 3 Pole Positions; allows for 1 zone override
⁴ Only One Communication Selection
⁵ 0.675-2.7 kW "Line Interactive"
⁶ 4.2-10 kW "Double Conversion"
⁷ USL series for 10.8, 16.0, 18.0 kW. USL series for Mini-Frame Option; 0.675 to 1.35 kW.
⁸ Standard on all units; For Mini-Frame, all Dry Contacts are optional



Small Frame



Medium Frame

Frame Size	Small					Medium			
Kw Capacity	0.675	0.9	1.35	1.8	2.7	4.2	6	8	10
Dimensions: W" x D" x H"	25.2" x 25.23" x 58.31"					30.2" x 31" x 71.32"			
90 Minute Max Weight: lbs	700 lbs	755 lbs	805 lbs	965 lbs	1060 lbs	1604 lbs	1978 lbs	2146 lbs	2296 lbs



Frame Size	Small					Medium			
Kw Capacity, Single Phase	0.675	0.9	1.35	1.8	2.7	4.2	6	8	10
Topology	Line Interactive					Double Conversion			
Input									
Voltage	120/208/240/277/480VAC								
Protection	Input Circuit Breaker								
Frequency Range	54-66 Hz					56-64 Hz			
Power Factor	≤0.99 at 100% load								
Output									
Voltage	120/208/240/277/347/480VAC Multi-tap Transformer for multiple output voltages								
AC Voltage Regulation	±10%					±1%			
Frequency	60Hz ±1%								
Overload Withstand	100-110%: 20 sec/110-125%: 10 sec/ > 150%: 1 sec					100-110%: 10 min/ 110-130%: 1 min / >130%: 1 sec			
Transfer Time to Battery	6 ms					0 ms			
Waveform	Pure sinewave, all operating modes								
Protection	Optional distribution circuit breakers								
Battery									
Battery Type	Sealed valve regulated lead calcium, 12V								
Battery Quantity	3	6	6	12	20				
Charge Current	3A					4A			
Recharge	12-24 hours typical (90 minute battery) / 42 hours maximum								
Disconnect	DC breaker								
Protection	End of discharge cutoff voltage; temperature compensated charging								
Environment									
Operating Temperature	32-104 °F (0-40 °C) ; battery life decreased when > 77°F (25°C)								
Operating Humidity	0-95% non-condensing								
Operating Altitude	3280ft (1000m) ¹								
Communication									
Smart Communication Port	RS232 and USB communication as standard								
Certifications									
Safety Conformity	UL924 OUST and UL1778								
Seismic Certification & Radiated Emission	IBC: Category D via calculations, FCC Part 15 Class A								
Options									
Distributed Circuit Breakers (maximum)	10					20			
Manual Bypass Switch	Integrated								
Communications Card	TCP/IP with SNMP, ModBus, & BACNET								
Dry Contacts	Active-open or Active-closed 1A (24Vdc) dry contacts with Output Dry Contacts Communication Options								
Standards									
Listing	Conformance to NFPA 101, NFPA 70, NEC and OSHA regulations. Compliant with City of New York and City of Chicago requirements. Adherent to Buy America Act								
¹ Above 1000m, output power must be derated 1% per additional 100m ² Always reference Spec Control Drawing (SCD) for the most current & accurate dimensions and weights ³ Including batteries once installed									

WARRANTY

ELECTRONICS

A full Year with Telephone Startup is standard. Two Years with purchase of Factory Field Startup.

BATTERY

A full One Year Warranty on the Battery System ensures that your batteries are protected from system failure now and in the future. Extended warranties, customized service plans and preventative maintenance are also available. Please refer to our warranty statement for complete details.

