Emergency Lighting UPS

20 kVA 208V pictured

Product Snapshot

Power Rating:	10 to 30 kVA
Topology:	Double-conversion online UPS
Battery Runtime:	Minimum 90 minutes at full load
Frequency:	50/60 Hz auto-sensing
Voltage:	208/208, 277/277, 480/277

Powering Business Worldwide

Emergency lighting requirements and related building codes are vital in commercial structures to facilitate occupant egress during a building fire or other emergency situation. Eaton's emergency lighting UPSs are UL 924 tested and certified, providing the industry's highest capacity and smallest footprint solution.

Eaton's Emergency Lighting UPS solutions are perfect for:

- Hospitals
- Schools
- Government buildings
- Office buildings
- Manufacturing facilities
- Hotels
- Commercial buildings

Eaton meets the strict standards for UL 924 Compliance

Providing you confidence in your emergency lighting solution

90 minutes of backup

- All Eaton emergency lighting UPS solutions are configured with external line and match battery cabinets to provide 90 minutes of backup time, which is required by the UL 924 standard.

Manually operated test switch

- The emergency lighting product line features manually operated test switches for conducting the mandated standard equipment tests.

Protected test switch and interface

- In accordance with the standard, the manually operated test switch and interface are protected from accidental operation and protected from non-authorized users.

In order to avoid building/safety code inspection delays during the commissioning of new facilities or retrofits of existing facilities, emergency lighting systems must be UL 924 listed. Remember only systems supplied from one manufacturer that are tested and approved by UL can carry the UL 924 listing.

Eaton's UPSs are backed by an extensive service network of over 240 field technicians, providing prompt service, full maintenance and stocked replacement parts not available from other vendors or providers.

Connectivity & manageability

Enhanced communication capabilities

UL 924 UPSs are equipped with a variety of standard communications features for network connectivity and remote management applications, including:

- RS-232 serial port
- Two X-Slot® communication bays
- Relay output contacts
- Two programmable signal inputs

Centralized control and visibility

Intelligent Power Manager software for monitoring

Eaton's Intelligent Power Manager (IPM) software allows the consolidation of monitoring and management of your emergency lighting UPSs. Any PC with an Internet browser and network connection can access status and power conditions of Eaton's emergency lighting UPSs, providing you the comfort that your systems are operating correctly.

IPM software is free for monitoring up to 10 devices. For locations with more than 10 devices, licenses can be purchased based on the number of units to be monitored.

Download from the Power Quality website:
www.eaton.com/intelligentpower

For more information on Eaton's emergency lighting UPS solutions, visit
www.eaton.com/UL924UPS

Service

Proven warranty and support services

Customers consistently rank Eaton number one in providing quality service; our comprehensive, world-class solutions are designed to improve costs, uptime, reliability, power quality and safety. With 240 field service technicians in North America and 1,200 international authorized service providers, Eaton has more service personnel than any other UPS manufacturer, coverage that ensures your emergency lighting and egress solutions are addressed in a timely fashion.

The standard factory warranty covers:

- System warranty: One year parts / 90 days labor
- Battery warranty: Two years parts / 90 days labor

Extensive service options for enhanced reliability

For support beyond the warranty period, Eaton offers enhanced service options including onsite startup, corrective and preventive maintenance, battery solutions, training, remote monitoring and factory spare parts and upgrades. Customizable three-phase UPS services packages allow customers to select the plan that provides the right combination of system uptime, convenience and value.

eNotify Remote Monitoring

Eaton's optional eNotify Remote Monitoring Service provides 24x7 real-time monitoring of the UPS and battery systems and alerts both service technicians and the customer when a problem is detected. Proactive monitoring enables technical experts to respond immediately to more than 40 alarm conditions and, in many cases, resolve issues remotely with minimal or no downtime. Additional eNotify benefits include:

- One-way outbound status and event e-mails for security and reliability
- Fast diagnosis and notification of critical alarms
- Monthly customer reports including power event logs and overall UPS and battery health summaries

TECHNICAL SPECIFICATIONS

	208V Three-phase				
Ratings (kVA/kW)	**10 kVA / 8.5 kW**	**15 kVA / 13.1 kW**	**20 kVA / 18 kW**	**30 kVA / 24 kW**	**30 kVA / 27 kW**
UPS Part Number	KA1012100000010	KA1512100000010	KB2013100000010	KB3013100000010	KB3013100000010
UPS UL 924 Upgrade Part Number	BH10KEL2083P-100	BH15KEL2083P-100	BH20KEL2083P-100	BH30KEL208SF-100	BH30KEL2083P-100
Extended Battery Module Part Number	103004193-5501	103004193-5501	103004868	103004868	103004868
EBM UL 924 Upgrade Part Number	BH-EBM96EL-600	BH-EBM96EL-600	BH-EBC72EL-600	BH-EBC72EL-600	BH-EBC72EL-600
# of Extended Battery Modules	2	3	2	2	3
Topology	Double-conversion Online UPS				
Operating Frequency	50/60 Hz (45 to 65 Hz)				
Input Power Factor	>0.99 typical, >0.96 frequency converter				
Input Current Distortion	5% THD				
Output Voltage	208 VAC 3P				
Input Voltage	208 VAC 3P				
Output Voltage Regulation	±1% Static; ±5% dynamic at 100% resistive load change, <1 ms response time				
Actual Runtime (min)	124	113	114	108	90
Overload	150% for 5 sec / 125% for 1 min (online), 110% for 10 min (Normal Operation)				
Communication Ports	(1) RS-232, (1) Relay Contact, (1) REPO, (2) Environmental Input				
Communication Slot	(2) X-Slot communication bays				
Operating Temperature	10°C to + 40°C, +45°C with 7.5% derating; Batteries recommended max. +25°C				
Storage Temperature	-15°C to +25°C				
Relative Humidity	0-95%, non-condensing				
Audible Noise	<53 dBA @ 1 meter, typical				
Altitude	<1000m at +40°C, <3000m at +25°C				
Safety Certifications	UL 924, UL 1778, NOM-0190SCFI-1993, CSA C22.2, IEC 60950, IEC 62040-1-1, No. 107.3;EN 5502 Class A (CISPR22 Class A)				
EMC Compliance	IEC 62040-2, FCC Part 15, ICES-003, VCCI				
Quality	ISO 9001: 2000 and ISO 14001:1996				
Markings	UL, cUL, CSA, CE and NOM-NYCE				
Dimensions H x W x D (in)*	47.8 x 36.0 x 33.7	47.8 x 48.0 x 33.7	66.0 x 60.0 x 34.1	66.0 x 60.0 x 34.1	66.0 x 80.0 x 34.1
Weight (lb)*	2,029	2,739	5,280	5,280	7,340

** Dimensions and weights include all battery cabinets and batteries.*

TECHNICAL SPECIFICATIONS

	277V Single-phase		480/277V Three-phase		
Ratings (kVA/kW)	**10 kVA / 7.2 kW**	**15 kVA / 9 kW**	**20 kVA / 18 kW***	**30 kVA / 24 kW***	**30 kVA / 27 kW***
UPS Part Number	K41013000000000	K41513000000000	KB2013100000010	KB3013100000010	KB3013100000010
UL 924 UPS Upgrade Part Number	BH08KEL277-100	BH10KEL277-100	BH20KEL2083P-100	BH30KEL208SF-100	BH30KEL2083P-100
Extended Battery Module Part Number	103004193-5501	103004193-5501	103004868	103004868	103004868
EBM UL 924 Upgrade Part Number	BH-EBM96EL-600	BH-EBM96EL-600	BH-EBC72EL-600	BH-EBC72EL-600	BH-EBC72EL-600
# of Extended Battery Modules	2	2	2	2	3
Options Cabinet Part Number	N/A	N/A	KBT004200000010	KBT004200000010	KBT004200000010
Options Cabinet UL 924 Upgrade Part Number	N/A	N/A	BH-KBT004-200	BH-KBT004-200	BH-KBT004-200
Topology	Double-conversion Online UPS				
Operating Frequency	50/60 Hz (45 to 65 Hz)				
Input Power Factor	>0.99 typical, >0.96 frequency converter				
Input Current Distortion	5% THD				
Output Voltage	277 VAC	277 VAC	480/277 VAC	480/277 VAC	480/277 VAC
Input Voltage	277 VAC	277 VAC	480 VAC 3P	480 VAC 3P	480 VAC 3P
Output Voltage Regulation	±1% Static; ±5% dynamic at 100% resistive load change, <1 ms response time				
Actual Runtime (min)	134	120	114	108	90
Overload	150% for 5 sec / 125% for 1 min (online), 110% for 10 min (Normal Operation)				
Communication Ports	(1) RS-232, (1) Relay Contact, (1) REPO, (2) Environmental Input				
Communication Slot	(2) X-Slot communication bays				
Operating Temperature	10°C to + 40°C, +45°C with 7.5% derating; Batteries recommended max. +25°C				
Storage Temperature	-15°C to +25°C				
Relative Humidity	0-95%, non-condensing				
Audible Noise	<53 dBA @ 1 meter, typical				
Altitude	<1000m at +40°C, <3000m at +25°C				
Safety Certifications	UL 924, UL 1778**, NOM-0190SCFI-1993, CSA C22.2, IEC 60950, IEC 62040-1-1, No. 107.3;EN 5502 Class A (CISPR22 Class A)				
EMC Compliance	IEC 62040-2, FCC Part 15, ICES-003, VCCI				
Quality	ISO 9001: 2000 and ISO 14001:1996				
Markings	UL, cUL, CSA, CE and NOM-NYCE				
Dimensions H x W x D (in)* **	47.8 x 36.0 x 33.7		66.0 x 80.0 x 34.1	66.0 x 80.0 x 34.1	66.0 x 100.0 x 34.1
Weight (lb)* **	1,978	1,978	6,072	6,072	8,132

** Options Cabinet BH-KBT004-200 required*
*** 277V models are not UL1778*
**** Dimensions and weights include all battery cabinets and batteries*

Powering Business Worldwide

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