Lithium-ion battery

Power on demandManagement and monitoring system

Nalkar,s lithium-ion battery systems provide a reliable and flexible solution that ensures 24/7 system uptime while delivering significant total-cost-of-ownership (TCO) savings. Capable of providing mega-watts of power in a small footprint, this battery solution is comprised of lightweight battery strings designed to seamlessly connect to a an Eaton 9395 family UPS or 93PM UPS.

Why lithium?

Lithium-ion chemistry demonstrates superior characteristics in UPS applications, this results in high energy density, long life, flexible installation, improved cycle life and a lower TCO.

Backup battery runtimes

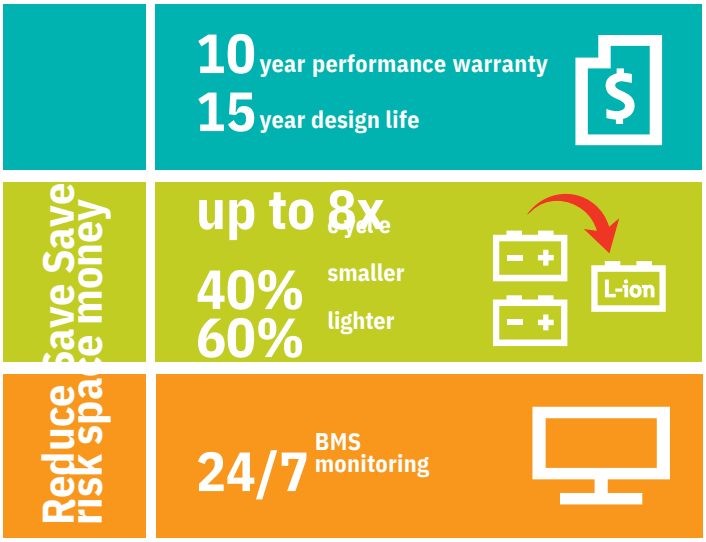
Contact Eaton for backup times and configurations. A wide range of runtimes from 3 minutes to an hour+ are available.

The lithium-ion battery integrates a powerful battery management system (BMS), providing cell protection (temp, current, over/under voltage), cell balanacing, state of charge and health and alarms/reports.

Protection: The BMS processes critical parameters such as voltage levels, temperature, and current at the module and solution levels. Abnormal conditions (warnings and alarms) are quickly detected and, if necessary, the BMS will protect the system from damage by disconnecting the affected battery.

Performance optimization: The BMS incorporates cell and module balancing controls. This function optimizes the voltages of each module to maximize performance and increase service life.

Benefits of lithium-ion





- Cost-effective
- Compact
- Safe



TECHNICAL SPECIFICATIONS1	Samsung 128S modelSamsung 136S model 486V 517V	LG chem 1-stringLG chem 2-string 466V 466V
Nominal voltage	410V 410V	410V 410V
Minimum voltage (DC under voltage trip point – DCUV)	538V 571V	523V 523V
Float voltage	67Ah, 32.6 kWh67Ah, 34.6 kWh	30Ah, 14kWh60Ah, 28kWh
Capacity	89.8" x 26" x 20.8" (2280.8 mm x 650 mm x 530 mm)	100.5" x 20.5" x 19.6" (2552 mm x 520 mm x 498.6 mm)
Dimensions (H x W x D)2	1,063 lb (482 kg)1,102 lb (500 kg)	763 lb (346 kg)1,081 lb (490 kg)
Weight	2-hole lugs (top entry only)	2-hole lugs (top entry only)
DC cable terminations	22A 22A	30A 60A
Continuous charge current	18° to 28°C (64° to 82°F)*18° to 28°C (64° to 82°F)*	19° to 27°C (66° to 81°F)*19° to 27°C (66° to 81°F)*
Operating temperature range	UL 1973, UL 9540A test passedUL 1973, UL 9540A test passed	UL 1973UL 1973
Safety certifications	UN3480, Class 9, UN 38.3UN3480, Class 9, UN 38.3	UN3480, Class 9, UN 38.3UN3480, Class 9, UN 38.3
Shipping certifications		

1. Specifications subject to change without notice.
2. Dimensions include the conduit box on the base structure * To maintain 10 year performance warranty

NalkaRENergy
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