



CATALOG

AEC USA

CRITICAL POWER



WWW.AECUPS.COM



LITHIUM SYSTEM S³



Power capacity : 40Ah - 50Ah - 100Ah



LITHIUM-ION BATTERY SYSTEM

“Carbon Peaking • Carbon Neutrality” has become a global priority for all countries and industries, and the concept of green energy saving has also been widely recognized by the people. Thanks to the new infrastructure and ‘dual carbon’ goals, the lithium-ion battery industry has developed geometrically at an astonishing pace. Lithium-ion iron phosphate walks in the forefront for its safety and stability, and has constantly carried out security upgrades.

By following the nuclear-grade safety design concept and leveraging its over 30 years of professional experience in the power field, Allis Electric deeply applied power electronics to the lithium-ion battery technology and released lithium-ion battery solution with high safety and reliability - AEC S³ Smart Backup Lithium-ion Battery System Solution.

LITHIUM BATTERY MODULAR

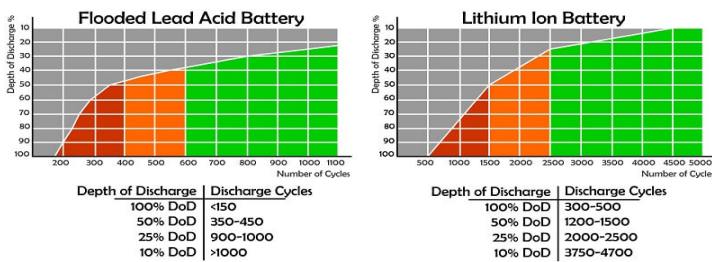
ADVANCED LITHIUM-ION TECHNOLOGY

- **Life cycles:** Li-ion batteries have a cycle longer life than lead-acid batteries, i.e can be downloaded and reloaded for a greater number of times before losing their capacity.
- **Self-discharge:** Li-ion batteries have a self-discharge lower than lead-acid batteries, which meaning they lose less energy when not in use.
- **Working voltage:** Li-ion batteries have a higher working voltage than al batteries lead, which means they can deliver more energy for each unit of volume.
- **Working temperature:** lithium ion batteries they can work in a wider range of temperatures compared to lead-acid batteries.

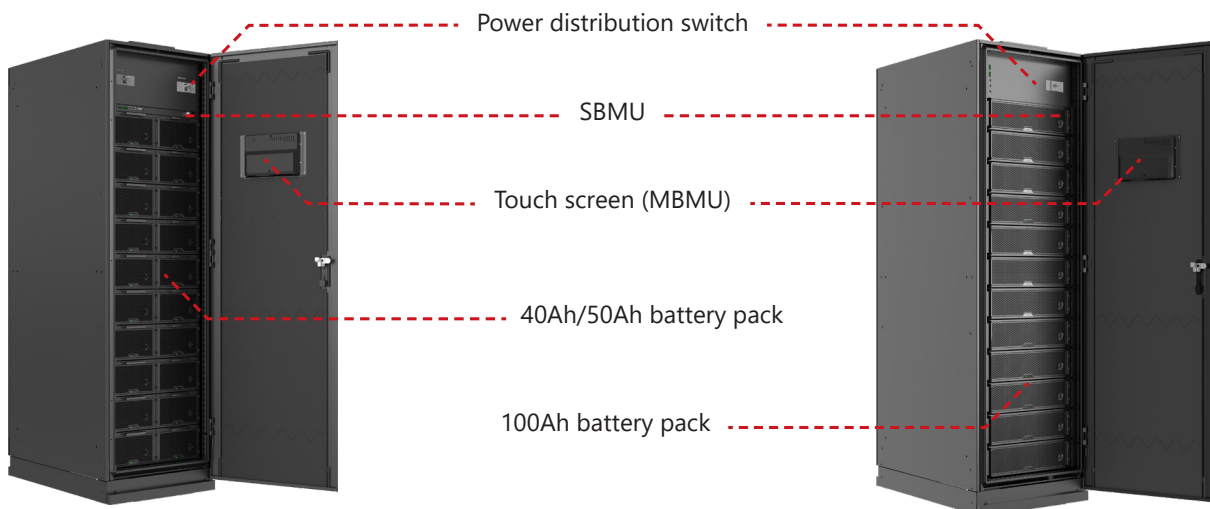


L6 Smart Backup Lithium-ion Battery System Solution

The effects of Depth of Discharge on the cycle life of a battery



PRODUCT STRUCTURE S³



40Ah/50Ah lithium-ion battery system cabinet

100Ah lithium-ion battery system cabinet

AEC S³ Smart Backup Lithium-ion Battery System Solution

MAIN FEATURES

The S³ smart backup lithium-ion battery system solution adopts the modular parallel design, Safe, smart and simple, which can compatible with the full range of AEC UPS, with power ranging from 60kW to 1200kW.

Safe and reliable

Electrical and physical double isolation

- Reduces the fault scope to an effective space without diffusion
- Port zero voltage, no risk of short circuit shock

Two-level fire linkage

- Module fire protection
- Can quickly, accurately and effectively detect and extinguish the fire source will extinguish the fire in the initial stage.

Failure module exit automatically

- Modular parallel design, failure module exit automatically, will not affect the system. Other modules can work normally.



Module-level expansion with fine granularity

Smart and Intelligent technology

Module design, plug and play

- 5mins maintenance, reduce the OPEX cost

Flexible for expansion

- Module design, can expand the capacity of modules or cabinets.
- Reduce the CAPEX cost

Smart battery test

- Parallel design, the battery can test the capacity Separately. No need to cut off the power supply, improve the reliability



Concerted operation with modular parallels

Easy and simple to operate

Intelligent current equalization

- Can be used with new and old batteries
- Can be used with lithium-ion batteries from different suppliers

Intelligent voltage equalization

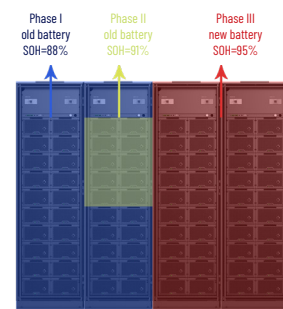
- Intelligent voltage equalization module, no barrel effect
- Prolong the backup time, improve battery utilization

Fault recording, early warning

- Fault recording, early warning, accurate and quick fault location, reduce the OPEX cost

Adaptive SOC management

- Intelligent charge and discharge management, avoid over charge and over discharge
- Detects the battery internal temperature. Improve the safety and reduce the OPEX cost

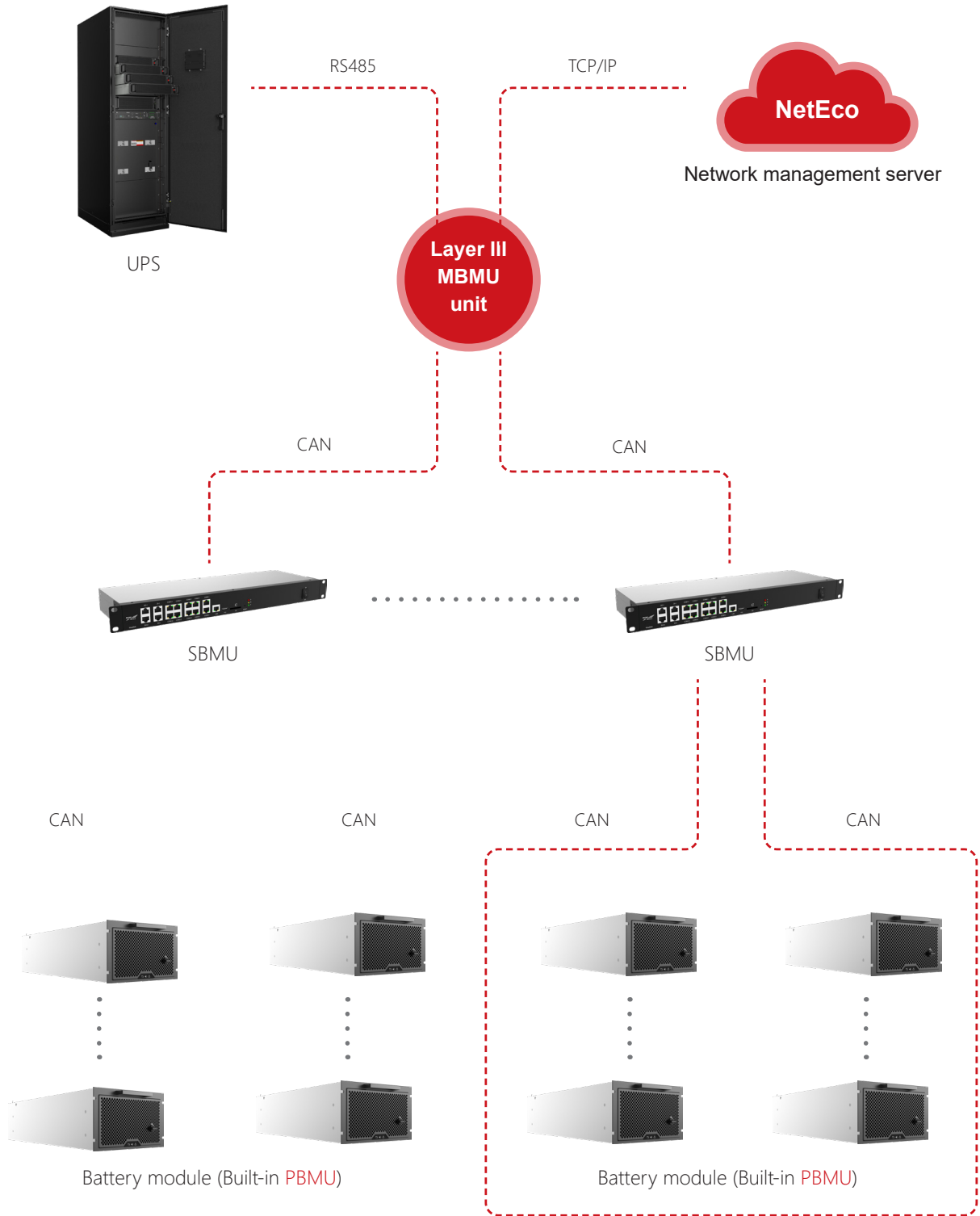


More flexible mixing of old and new batteries

THREE-LAYER BMS ARCHITECTURE S³

The adopted three-layer BMS architecture (PBMU/SBMU/MBMU) ensures the reliability of lithium-ion battery system from cell, module and system layers.

SYSTEM ARCHITECTURE



AEC GROUP
Offices in the world



AEC UPS USA LLC

244 Biscayne Blvd, Miami 33132
Florida, United States

Website: www.aecups.com
Email: Contact@aecups.com
International Calls: +39 334 9785900
Mobile\WhatsApp: +39 371 5547475



AEC International Srl

Via Nerviano 55, Lainate 20045
Milan, Italy



Allis Electric Co. Ltd

19-11, Sanchong, Nangang Dist.,
Taipei City, Taiwan



CONTACTS

USA Head office address

244 Biscayne Blvd Miami
33132 Florida USA

Web & Email

www.aecups.com
contact@aecups.com

ITALY Head office address

Via Nerviano 55
Linate 20045 - Milan, Italy

Numbers:

Italian Office : +39 02 94158991
Mobile\WhatsApp : +39 334 9785900
Technical Support : +39 371 5547475