



Energy Storage Solutions

SMALL & LARGE
UPS





NEXCHARGE SMALL UPS SOLUTION

Lithium Ion Batteries for small UPS application is a lighter and compact solution which is suitable for high charge and discharge rates critical for such application. With its higher cycle life and effective Battery Management system, it maximizes the reliability performance of the UPS and is becoming the preferred solution over conventional lead acid batteries.

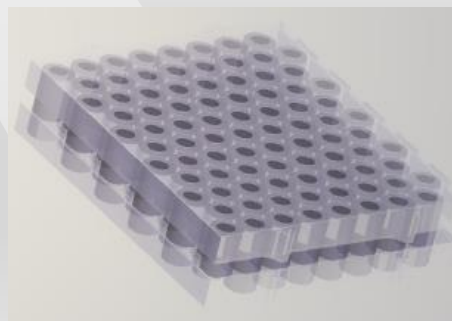
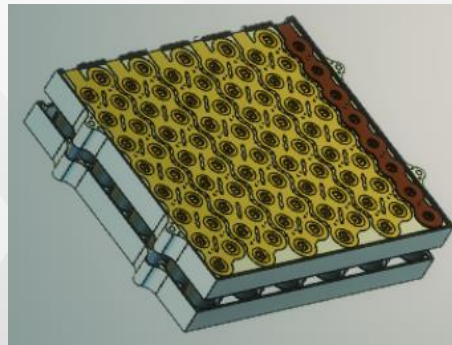
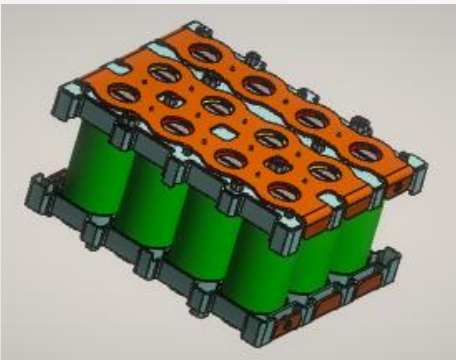


Solution Features

- › Safe & Reliable LFP technology
- › High Energy Density
- › Superior Thermal Management
- › Customizable form factors to suit UPS footprints
- › Wide operating temperature range
- › Communication interface (Optional)
- › Built-in advanced protections
- › Less weight and compact
- › Long life span
- › High round-trip efficiency

▶ TECHNOLOGICAL
STRENGTH

STATE-OF-ART MODULE DESIGNS

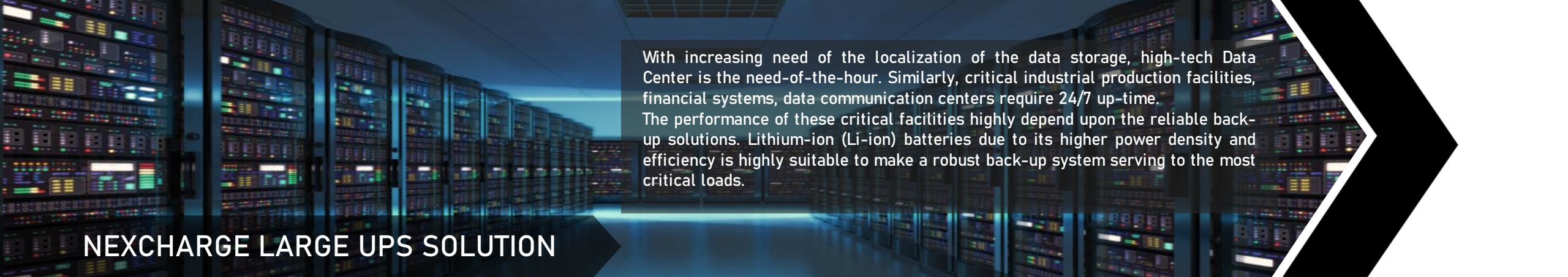


- Superior Thermal management
- Designed for scalable sizes
- Robotic spot welding with unique hybrid busbar design to reduce the contact resistance
- Clean wire routing
- Compact & optimum part placements
- Ease of assembly & manufacturing
- Different connector options

UPS rating (kVA)	UPS DC Bus voltage	Battery Pack Nominal DC voltage (VDC)	UPS Parameters			Back up time - 1 hour	
			Boost Cut - off (VDC)	Low cut off (VDC)	Float voltage (VDC, if required)	Rated capacity (kWH)	Utilizable capacity (kWH)
1	36	35.2	39.6	32.45	37.95	1.27	1.02
2	48	48	54	44.25	51.75	2.02	1.61
2	72	70.4	79.2	64.9	75.9	2.53	2.04
3	72	70.4	79.2	64.9	75.9	3.38	2.7
3	96	96	108	88.5	103.5	4.03	3.23
5	96	96	108	88.5	103.5	5.76	4.6

These configurations are compatible with the existing UPS designed for VRLA batteries

Note: The battery sizing & configurations can be customized based on the UPS rating and power back up requirement



With increasing need of the localization of the data storage, high-tech Data Center is the need-of-the-hour. Similarly, critical industrial production facilities, financial systems, data communication centers require 24/7 up-time. The performance of these critical facilities highly depend upon the reliable back-up solutions. Lithium-ion (Li-ion) batteries due to its higher power density and efficiency is highly suitable to make a robust back-up system serving to the most critical loads.

NEXCHARGE LARGE UPS SOLUTION

Solution Features

- High Power Density
- Suitable for fast charge & discharge
- Compatible for communication with UPS
- State-of-Art BMS with built-in advanced protections
- Rack level switchgear and controller for centralized communication and protections
- Remote monitoring & diagnostics (Optional)
- Long life span
- High Safety and Reliability
- Less footprint and volume
- Scalable
- Low Maintenance



Solution Range

Parameter	Details
UPS Capacity	10-500kVA
Run Time	10-60 Minutes
Nominal Voltage	240-520V

*The battery sizing & configurations shall be customized based on the UPS rating and power back up requirement