NetSure™ Lithium Battery

Energy Storage for Telecom Applications

Benefits

- Achieve best total cost of ownership (TCO) with NMC prismatic cells ideal for high cyclical applications in harsh conditions.
- Support challenging roof or floor load conditions with a low weight, energy dense solution.
- Appreciate the flexibility to scale your energy storage requirements up to 100+ kWh in 4.84 kWh increments.
- Meet constricted site build time deadlines by having the ability to air ship battery modules when needed.
- Decrease operational costs by remotely managing the entire energy solution with the NetSure™ Control Unit (NCU).

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Best-in-class solution providing a light, power dense energy storage system for cyclic telecom applications.

The NetSure™ Lithium Battery is a best-in-class energy storage system for demanding telecom applications. The battery, built with high cycle life NMC prismatic cells, provides a high value solution under harsh conditions compared to other lithium batteries.

Benefiting from a high cyclic life, this battery can be used to create industry leading small footprint solutions for off-grid and bad-grid applications.

At a weight of less than 35kg – approximately one-third of a comparable lead battery string and two-thirds of a comparable LFP lithium battery – the NetSure Lithium Battery addresses expanding power/energy needs on existing floors and roof tops.

The battery's capability to support 100+ kWh solutions allows for a common solution from access to core sites.

Enabling air transport, with a <35kg battery and UN 3840 certification, the battery can be quickly deployed to remote sites anywhere in the world.

Data integration with the NetSure Control Unit (NCU) enables effective battery monitoring to be performed remotely. Battery alarms and overall state-of-health (SoH) data are easy to access, eliminating the cost and travel to physically inspect and diagnose the battery on site. Furthermore, SoH data enables forecasting of optimal service life and intelligent scheduling of maintenance.

Backed by a global team of Vertiv service experts, the easy to deploy NetSure Lithium Battery delivers a best-in-class solution that enables carriers to provide reliable energy in off-grid and bad-grid applications.

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Technical Specifications

Energy Storage -48VDC Nominal	
Telecom Operating Range	44.8 to 57.6 VDC
Standard and Maximum Discharge Current	30 A and 47 A
Nominal Capacity	94 Ah (4.84 kWh, at 58.1 VDC)
Recharge Efficiency	98%
Status Indicators	4 LED – Communicating SOC, Status and Alarms
Communications	Modbus with NetSure NCU
Number In Parallel	100+ kWh (24 Batteries)
On-Board Protection	OVP, UVP, OTP, UTP, OCP
Cycles @ 60% DoD, 80% EOL 28°C 0.3C	7300
Cycles @ 80% DoD, 80% EOL 25C 0.3C	5200

Environmental and Compliance	
Operations Conditions	-10°C to +50°C (0 to 85% Relative Humidity (Non-Condensing)
Standards	IEC 62619, IEC60730-1, EN 55022, UN 38.3, UN 3840, ROHS, REACH

Mechanical and Accessories	
Dimensions	466mm x 440mm x 158 mm (depth, width, height)
Weight	<35 kg
Mounting Options	In-Rack Telecom and Cabinet Racks

Ordering Information

Part Number	Description
51/BKB10304094/60A	Vertiv Samsung 94 Ah Lithium Battery

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