



ENERGY STORAGE SOLUTIONS FOR TELECOM

nexcharge
Exide Leclanche Energy
Private Limited



Nexcharge presents the state-of-the-art solution for long pending requirement of Telecom sector to provide complete green operation with improved uptime and total energy accountability with its advance **Battery Management System & value-added features like Remote Asset Services**. The premium quality & better life would ensure minimum **Total Cost of Ownership (TCO)**.



FEATURES

- › Reliable & safe LiFePO_4 cell technology
- › Advance Remote Asset Services RAS (Optional)
- › Effective failure prevention and analytics with balance of life with RAS
- › Communication through RS485 / RS232
- › Suitable for multi-unit parallel connection (up to 15 modules)
- › State-of-art BMS with built-in advance protections
- › Higher operating temperature range
- › High cycle life
- › High efficiency
- › Standardized 19" rack-mountable

APPLICATIONS

- › BTS, BSC, Small cell
- › MSC, Server sites, Datacentres
- › Wi-fi, Broadband, Fiber-net
- › Transmission equipment
- › Remote Exchange Office
- › Satellite Ground Stations
- › Mobile Communication Equipment



TECHNICAL SPECIFICATIONS

48V 100Ah48V 75Ah48V 50Ah48V 40Ah

Cell Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Pack Configuration	15S1P	15S1P	15S1P	15S2P
Rated Voltage	48V	48V	48V	48V
Rated Capacity (at standard discharge, 25°C)	100Ah	75Ah	50Ah	40Ah
kWh Rating	4.8 kWh	3.6 kWh	2.4 kWh	1.92 kWh
Standard Charge Current	20A	15A	10A	8A
Max. Continuous Charge Current	50A	37.5A	25A	20A
Charge/Discharge Cut-off Voltage	54/44V	54/44V	54/44V	54/44V
Standard Discharge Current	20A	15A	10A	8A
Max. Continuous Discharge Current	50A	37.5A	25A	20A
Max. Discharge Current (1 cycle/day)	100A	75A	50A	40A
Working Temperature (Charge)	0 to 45 °C	0 to 45 °C	0 to 45 °C	0 to 45 °C
Working Temperature (Discharge)	-20 to 55 °C	-20 to 55 °C	-20 to 55 °C	-20 to 55 °C
Cycle Life (at 80% DoD, 25°C)	>3500	>3500	>3500	>3500
Charge/Discharge Efficiency	>95%	>95%	>95%	>95%
Communication Ports	RS485/RS232	RS485/RS232	RS485/RS232	RS485/RS232
IP Class	IP20	IP20	IP20	IP20
Dimension in mm (LxWxH)	410 x 442 x 177.5 (4U)	400 x 442 x 177 (4U)	410 x 442 x 131 (3U)	330 x 442 x 88 (2U)
Weight (kg)	~45	~35	~30	~15

Note: Performance parameters like cycle life, capacity, efficiency etc. mentioned are with standard charge and discharge rate and 25°C operating temperature.

COMMUNICATION & MONITORING

- › RS485 & RS232 communication ports
- › Dial switch for address set-up
- › System reset button
- › Dry contacts
- › SOC and operating status LED
- › Failure warning display LED
- › SOH evaluation for battery

ADVANCE BATTERY MANAGEMENT SYSTEM

- › Cell Balance Management
- › Warning & Protection for:
 - › Over charge & discharge for cell & battery pack
 - › High/low temperature during charge & discharge
 - › Short circuit
 - › Reverse Polarity
 - › Charge & Discharge Over Current

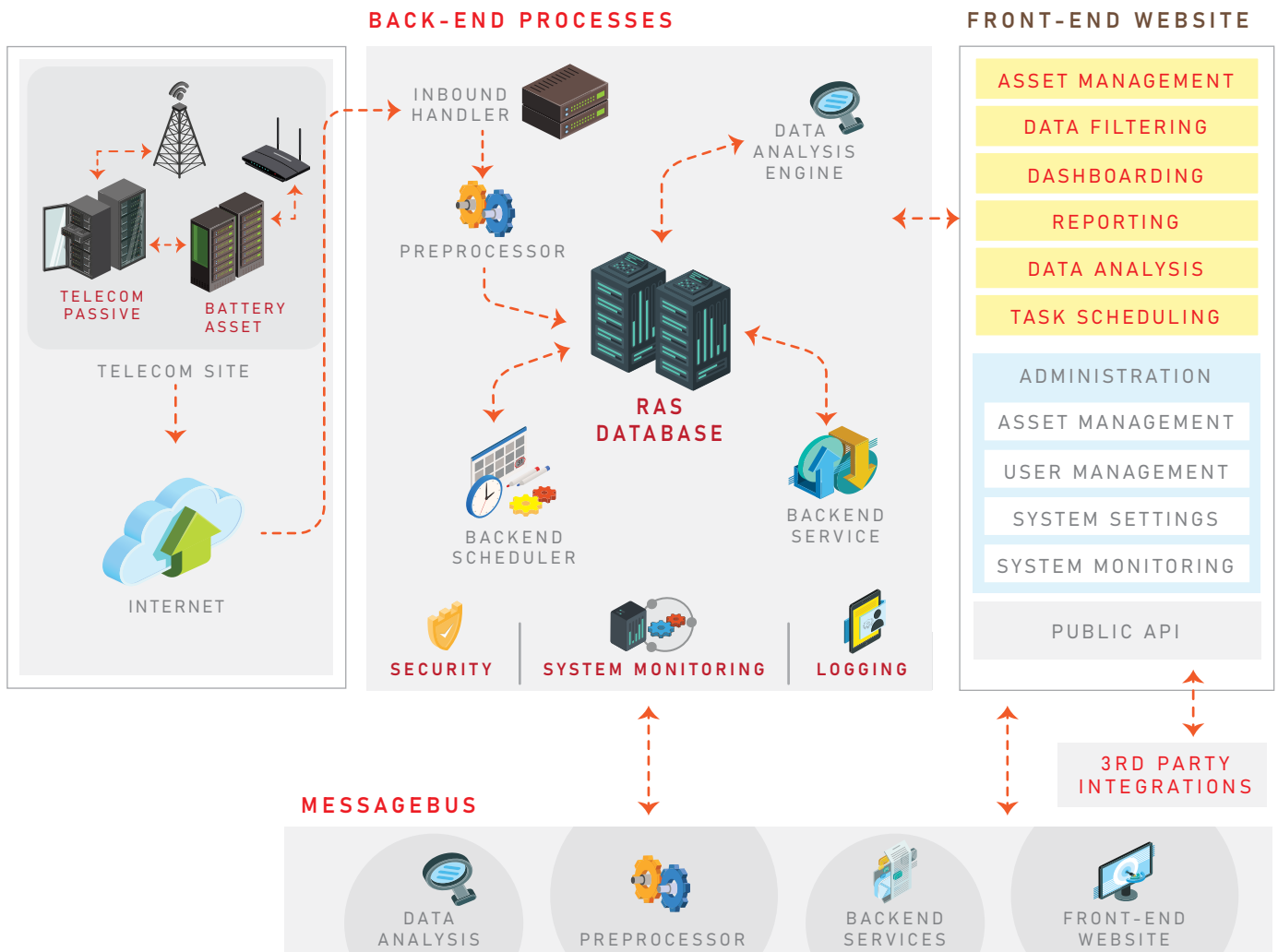


VALUE-ADDED FEATURES - REMOTE ASSET SERVICES (RAS)

RAS (Remote Asset Services) is a cloud-based software application that is used to monitor, configure, analyze, report & diagnose telecom battery packs remotely. This application is instrumental in improving up-time, energy accountability and optimizing fuel expenditure.



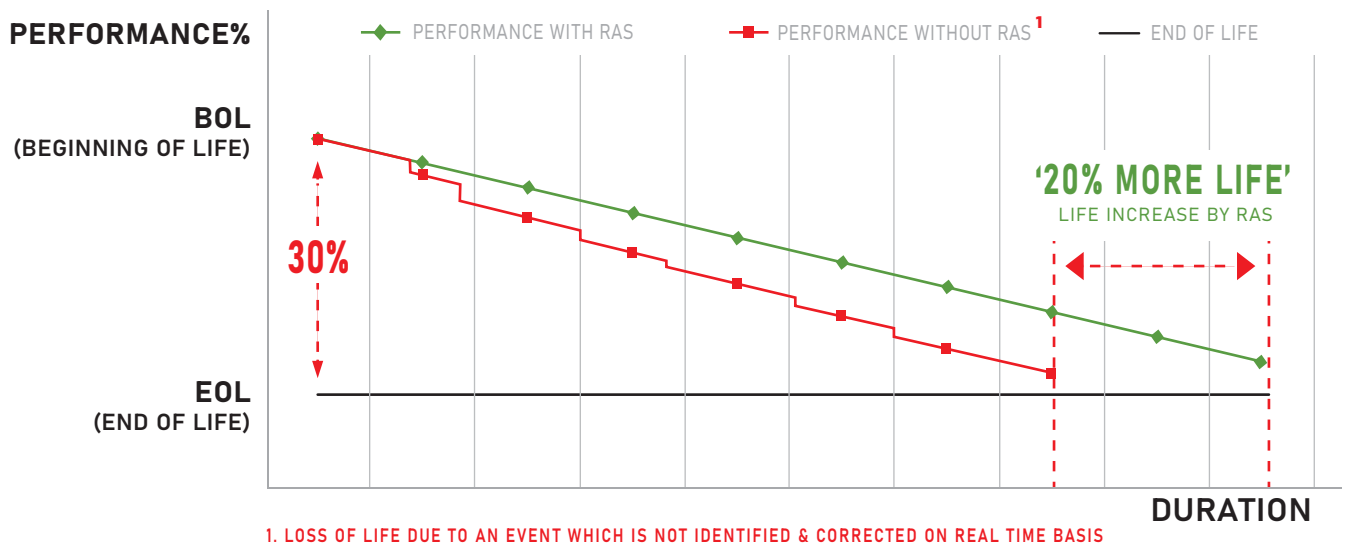
ARCHITECTURE



USER BENEFITS

- › O&M: Monitor telecom sites to meet or exceed committed performance
- › Identify and quantify the areas to maximize the performance
- › Advance fault detection and data analytics to improve up-time
- › Create the activity log for one shot maintenance via remote monitoring
- › Direct notifications in the O&M personnel mailbox
- › Remote firmware configuration and upgradation
- › Asset tracking and accountability with Geo-tagging
- › Provide responsive GUIs (Graphics User Interface) & dashboards to end users
- › Critical component for Green cluster sites to bring energy accountability & up-time

NEXCHARGE COMMITMENTS WITH RAS



- › Nexcharge can extend warranty on purchase of Battery pack along with RAS
- › Increased Telecom site's up-time to 99.9x%
- › Ensure the updated firmware all the time for best performance
- › Ensure complete energy accountability of the telecom site
- › Maintain an overview of the performance of all your assets
- › Single window for energy needs on site





**LET'S CONNECT FOR A
POWER-PACKED PARTNERSHIP**

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