PRODUCT SPECIFICATIONS

BATES INTERIOR SOLUTIONS (PTY) LTD
Reg No.: 2019/031133/07

2nd LiFe

Revov 2nd LiFe 51.2 V

2nd LiFe Battery system for stationary Energy Storage

Models: 150Ah (7.6kWh), 180Ah (9.2kWh), 200Ah (10.2kWh)

The REVOV 2nd LiFe 51.2V energy storage system is a Lithium Iron Phosphate based system utilising 2nd LiFe Electric Vehicle batteries to provide backup, primary and secondary power in Residential, Commercial, Industrial and Utility applications where daily cycling of the system is required. The system offers unrivalled value in terms of Life Cycle cost and Capital outlay, with class leading energy density, life time, cycle life and high temperature performance

APPLICATION

- Telecom Base Stations
- Data Centres
- Residential Backup
- Solar, Wind and Hybrid Storage
- Peak Shaving
- Off-Grid Living and Working

COMMUNICATION

- Communication interface (RS485, Modbus)




BATTERY MANAGEMENT SYSTEM FUNCTION

- Charge and Discharge Current
- Hardware protection
- Discharge control
- Charge control
- Cell voltage detect
- Cell balance
- Temperature detect
- Communication(RS485)
- PACK voltage detect
- Fault alarm
- Cell sample lines
- Short circuit protection
- Can identify large capacitance
- Capacity of the display
- Temperature detect
- Communication(RS485)

INDUSTRIAL VISION

- REVOV 2nd LiFe batteries have been developed and qualified to suit the demanding requirements of performance and operational reliability of our customers
- Cell manufacturing is carried out on established industrial production lines
- Manufacturing plants comply with the legislation in force in each country and with international quality standards IS09001 Qs9000
- Re-purposing of EV batteries is the only way to reduce environmental impact

FEATURES

- Lithium Iron Phosphate (LiFePO4)
- Supports parallel connection
- Lifetime exceeds 10 years at 25 C
- External BMS (24 or 48 v)
- Lighter than competing Lead or Gel alternatives
- No active cooling required

ADVANTAGES

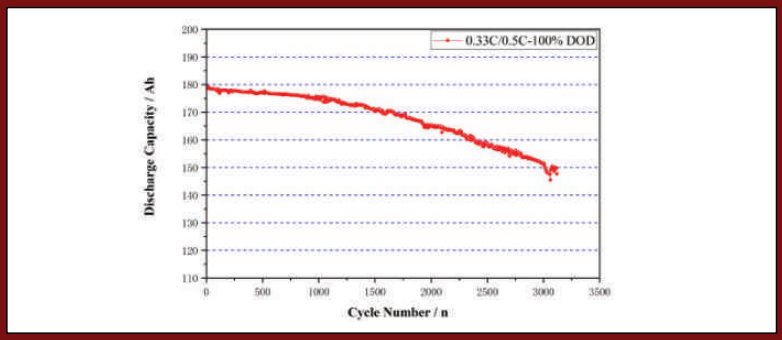
- Unmatched Cost per Cycle
- Best Safety Record of All Lithium Chemistries
- Good High Temperature Performance
- Remote Management Capabilities

NOMINAL SPECIFICATIONS

Nominal Voltage (V)	51.2 (25.6V x 2)
Capacity (C/2) (Ah)	150 / 180 / 200
Energy (C/2) (Wh)	7,680 / 9,216 / 10,240
Maintenance	Charge the battery every 6 months when in storage

MECHANICAL SPECIFICATIONS

Width (mm)-BMS	482.8
Height (mm)-BMS	41.8
Depth (mm)-BMS	280
Weight (kg)-BMS	3.6±0.5 Kg
Width (mm)-Battery	563±3mm
Height (mm)-Battery	186±3mm
Depth (mm)-Battery	563±3mm
Weight (kg)-Battery	52.5±2.0Kg



ELECTRICAL SPECIFICATIONS

Voltage window(V)	40~60
Charge voltage(V)	Float Charge 54.4 Boost Charge 55.5 Bulk Charge 54.4 Battery Disconnect 47.5
Max Continuous Charge Current	0.5C
Recharge time(h)	2hr @ 0.5C (standard)
Nominal voltage(V)	51.2
Capacity (C/2) (Ah)	150 / 180 / 200

OPERATING CONDITIONS

Lifetime @+25°C	10 years
Cycle life (90%DOD,+25°C)	3,500
Operating temperature	Charge :0~50°C; Discharge:-20~55°C;
Transport regulation compliance	UN3480
Storage temperature	Short-term storage:-10~+45°C (<3 months, SOC: 20%~60%) Long-term storage:-10 ~+40°C (<1 year, SOC: 30%~60%)
EMC standard compliance	EN 61000 chapter 4.2,4.3,4.5,4.6/EN55022
Certificate	TUV SUD/CE/ UL1642/UN38.3
Protection class	IP20
Warranty	10yrs or 3500 cycles at 1 cycle per day (whichever arrives first)

FOR MORE INFORMATION PLEASE CONTACT OUR SALES MANAGERS

BATES INTERIOR SOLUTIONS (PTY) LTD
Reg No.: 2019/031133/07

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