

PRODUCT SPECIFICATIONS

Revov 2nd LiFe 51.2 V 2nd LiFe Battery system for stationary Energy Storage



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

Suppliers and installers of Raised Access Flooring & Energy Solutions

Models: 200Ah (10.2kWh), 220Ah (11.2kWh)

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 ISO9001 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) | 200 / 220 |
| Energy (C/2) (Wh) | 10,240 / 11,264 |
| Maintenance | Charge the battery every 6 months when in storage |

MECHANICAL SPECIFICATIONS

| | |
|---------------------|-------|
| Width (mm)-BMS | 483 |
| Height (mm)-BMS | 42 |
| Depth (mm)-BMS | 280 |
| Weight (kg)-BMS | 3.6kg |
| Width (mm)-Battery | 442mm |
| Height (mm)-Battery | 170mm |
| Depth (mm)-Battery | 563mm |
| Weight (kg)-Battery | 53kg |

FOR MORE INFORMATION PLEASE CONTACT

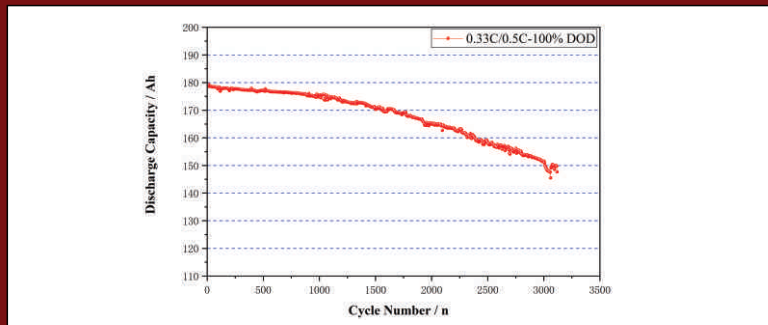


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Tel: 011 447 8370
Cell: +27 66 327 9870

www.batesinteriorsolutions.co.za



ELECTRICAL SPECIFICATIONS

| | | |
|----------------------------|-------------------------|---------------------|
| Charge Voltage (V) | Float Charge | 54.5 |
| | Boost/Absorption charge | 55.5 |
| | Battery Disconnect | 50 - 49.5 |
| Recommended Charge Current | | 0,5C |
| Max Charge Current | | 0,75C |
| Max Output Power (Wh) | | 10,240 / 11,264 |
| Recharge Time (h) | | 0,5C*2hr (standard) |
| Nominal Voltage (V) | | 51,2 |
| Capacity (Ah) | | 200 / 220 |

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) |