

REV OV R100 51.2V 100Ah 5.1kWh



KEY FEATURES

- Automotive Grade Cells – 16 cell configuration.
- Integrated CAN bus and RS485 BMS.
- LCD display shows battery information such as state of charge configuration.
- Pre-configured with optimal parameters.
- Warranted for daily cycling.
- Compatible with leading inverter brands.
- Built in protection - Over-discharge / over-charge protection, temperature protection, short circuit protection.

FREEDOM FROM DEPENDENCE

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The **REV OV LiFePO₄ CAN bus enabled R100** is an energy storage Lithium Iron Phosphate battery using a superior 16 automotive grade cell configuration, designed to withstand harsher conditions, extreme temperatures and with a higher energy density. A lithium iron battery has a service lifespan of 15 to 25 years, depending on how it is used.

A **REV OV 2nd LiFe** battery spends its first life powering 1800 **cycles in electrical vehicles (EV)**. It's **2nd LiFe** is perfect for static energy storage solutions, at a greatly reduced cost compared to new LiFe batteries.

REV OV 2nd LiFe batteries are environmentally responsible, reducing electronic waste and repurposing important materials.

With a 5kWh capacity, you can start your DC backup system with one battery and then grow according to your usage requirements. Applicable with solar, wind or hybrid storage.

WARRANTY

REV OV Batteries (PTY) LTD:

10 years or 3 500 cycles at 1 cycle per day.

DOD When used properly every day the R100 can be safely discharged to 100% of its rated 100Ah capacity. Battery life is shortened if it is discharged beyond its rated Ah capacity.

CAN bus ENABLED

INTEGRATED BMS SYSTEM

BMS Indicator Lights:

- Green Light – Normal Operation.
- Red Light ON – Fault Detection.
- Green Light Flash – Charging.
- Green and Red-Light Flash – Over Discharge warning.
- Fault Detection – ON fault detection the BMS stops charge and/or discharge.
- Recovery – when conditions return to normal BMS releases the protection made.

BMS Monitors and Manages:

- Charge and Discharge Current.
- Over-Charge protection and recovery.
- Under-Charge protection and recovery.
- Cell Voltage Detection.
- Short Circuit Protection.
- Cell Balancing.
- Temperature protection and recovery.

SPECIFICATIONS

Designed Cycle Life	7000+ cycles
Nominal Voltage	51.2V
Nominal Capacity	100Ah
Energy	5.1kWh
Max Current	100A
Recommended Recharge	3 Hours at 40A
Boost / Absorption Voltage	54.3V- 55.5V
Float Voltage	54.0V- 54.5V
Suggested Discharge cut-off Voltage	48V
Recommended Charging Current	40A
Recommended Discharge Rate	0.6C
Size: Length x Width x Height	480mm x 420mm x 177mm
Weight	42kg

OPERATING CONDITIONS

Design Cycle Life	7,000
Operating Temperature	
Charge:	Zero / 45°C
Discharge:	-20°C / 60°C

DoD

When used properly every day the R100 can be safely discharged to 100% of its rated 100Ah capacity. Battery life is shortened if it is discharged beyond 100Ah.

OPTIONAL ADD-ONS

- Parallel connection is optional.
- Battery rack or cabinet is optional.



Enquiries: enquiries@revov.co.za
Enquiries: 010 035 6061
WhatsApp: +27 (0)73 159 5938

Technical Service Desk: 010 035 0680
Technical Service Email: admin@revov.co.za

Unit 1, Cranberry Industrial Park,
 1486 Cranberry Street
 Honeydew, Roodepoort, 2040,
GPS: 2604'46.9"S 2755'31.7"E

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