

# REVOV B100 51.2V 100Ah 5.1kWh



## KEY FEATURES

- Ideal for **telecom base station batteries** - as more efficient and longer lasting than lead-acid batteries.
- **Lighter** and more **compact**, with a **modular design** - an advantage for communication stations that need to install equipment in limited space.
- **Anti-theft** Protection.
- **LCD display** shows battery information such as state of charge configuration.
- Warranted for daily cycling.
- **Communication** with leading inverter brands through the use of an RCU extension.
- **Reduced Peak Usage** charges from the grid.
- **Built in protection** - Over-discharge / over-charge protection, temperature protection, short circuit protection.
- **Plug-n-Play in an inverter controller ESS** - The inverter is configured as the first line of safety with slightly stricter upper and lower bounds on controls, (like the over and under voltage and temperature thresholds) than those that are pre-configured in the BMS.

## FREEDOM FROM DEPENDENCE

WWW.REVOV.CO.ZA

The **REVOV LiFePO4 B100** is a Lithium Iron Phosphate battery designed to be part of an inverter-controlled energy storage system for residential, business or factory power backup. The anti-theft technology makes the battery an undesirable target for thieves.

**REVOV'S superior 16 cell configuration** is made up of brand new automotive grade cells, which is designed to withstand harsher conditions, extreme temperatures and with a higher energy density, a better solution than the average storage grade cells.

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

**REVOV Batteries (PTY) LTD:** 10 years or 3 500 cycles at 1 cycle per

day. When used properly every day the B100 can be safely discharged to 100% of its rated 100Ah capacity. Battery life is shortened if it is discharged beyond its rated Ah capacity.

**CODE:** LiFe - 4U - IntBMS - B100 - 5.1

## INTEGRATED BMS SYSTEM

### BMS Indicator Lights:

- Green Light – Normal Operation.
- Red Light ON – Fault Detection.
- Green Light Flashing – 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

<b>Designed Cycle Life</b>	7000+ cycles
<b>Nominal Voltage</b>	51.2V
<b>Nominal Capacity</b>	100Ah
<b>Energy</b>	5.1kWh
<b>Max Current</b>	100A
<b>Recommended Recharge</b>	3 Hours at 40A
<b>Boost / Absorption Voltage</b>	55.5V
<b>Float Voltage</b>	54.5V
<b>Warranted Discharge cut-off Voltage</b>	48 – 49V
<b>Standard / Charge</b>	20A / 100A (Max)
<b>Max Discharge Rate (peak)</b>	1C
<b>Max recommended daily continuous discharge current</b>	60A
<b>Size: Length x Width x Height</b>	420mm x 482mm x 177mm
<b>Weight</b>	42kg

## OPERATING CONDITIONS

<b>Design Cycle Life</b>	7,000
<b>Operating Temperature</b>	Zero / 45oC
<b>Charge:</b>	-20oC / 60oC
<b>Discharge:</b>	When used properly every day the B100 can be safely discharged to 100% of its rated 100Ah capacity. Battery life is shortened if it is discharged beyond 100Ah.
<b>DoD</b>	

## OPTIONAL ADD-ONS

- Parallel connection is optional.
- Battery rack or cabinet is optional.
- **REV OV** Communication Unit (RCU.V2).

