2NDLIFE

REVOV
REVOLUTION IN ENERGY RELIABILITY
2ND LIFE

REVOV R9 51.2V 200Ah 10.2kWh

CODE: SYS – 2LiFe – R9 – 200 – 10.2

KEY FEATURES

- **$LiFePO_4$** chemistry is considered very safe even if fully charged.
- Reliability – battery designed to operate in almost any environment.
- Durability – life expectancy exceeding 10 years at 25°C.
- Supports parallel bus bar connection.
- External BMS (24 or 48V).
- Manufacturing plants comply with the legislation in each country and with international quality standards ISO9001 and Qs9000.
- Residential, Business, Factory, Data Centres or Telecoms Base Station backup.
- Solar, Wind or Hybrid Storage.
- Reduce Peak Usage Charges from the Grid.

FREEDOM FROM DEPENDENCE

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The **REVOV 2nd $LiFePO_4$ R9** is an energy storage Lithium Iron Phosphate battery using a superior 16 cell configuration, made up of automotive grade cells, which is 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 **REVOV 2nd LiFe R9** battery spends its first life powering 1800 **cycles in electrical vehicles (EV)**. Its **2nd LiFe** as a repurposed battery is perfect for static energy storage solutions, at a greatly reduced cost. The system offers unrivalled value in terms of life cycle cost and capital outlay.

REVOV 2nd LiFe batteries are environmentally responsible, reducing electronic waste and repurposing important materials. The **R9** battery is designed with a cycle-life of over 7000+ cycles, making them ideal for residential, commercial and industrial applications.

WARRANTY

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

DOD When used properly every day the R9 can be safely discharged to 100% of its rated 200Ah capacity. Battery life is shortened if it is discharged beyond its rated Ah capacity.

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BMS FUNCTION

- Cell and battery voltage detection.
- RS485 communication interface.
- Battery charge and discharge control (MOSFET).
- Cell, ambient and MOSFET temperature detection.
- Display of the Battery capacity and number of cycles.
- Cells balancing – Equalization of single cells intelligently.
- Watchdog protection for circuits to ensure safe operation.

SPECIFICATIONS

Charge Voltage (V)	Float Charge	54.5
	Boost / Absorption charge	55.5
Recommended Charge Current		60A
Max Output Power (Wh)		10.24
Recharge Time (h)		4hrs
Noinal Voltage (V)		51.2
Capacity (Ah)		200
BMS Size: Length x Width x Height (mm)		483 x 280 x 42
BMS Weight: (kg)		3.6
Battery Size: Length x Width x Height (mm)		520 x 442 x 170
Battery Weight: (kg)		53

Each BMS must have a dedicated fuse (125A) to protect the system

NOMINAL SPECIFICATIONS

	Matched Pair
Nominal Voltage	51.2 (25.6V x 2)
Capacity (C/2) (Ah)	200
Energy (C/2) (Wh)	10.24
Maintenance	Charge the battery every 6 months when in storage

OPERATING CONDITIONS

Designed Cycle Life + 25°C	7000+ cycles
Operating Temperature Charge: Discharge:	Zero / 45°C -20°C / 60°C
Transport regulation compliance	UN3480
Storage temperature	**Short term storage:** -10°C~+45°C (<3 months, SOC: 20%~60%) **Long term storage:** -10°C~+40°C
EMC standard compliancea	EN 61000 chapter 4.2, 4.3, 4.5, 4.6/EN55022
Certificate	TUV SUD/CE UL1642/ UN38.3
Protection class	IP20

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Proud Member of SAESA South African Energy Storage Association

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