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## REVOV STAR 51.2V 200Ah 5kVa/10.2kWh



## FREEDOM FROM DEPENDENCE

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The **REVOV STAR** is a 10.2kWh residential or small business backup power unit. This fully integrated backup system includes pre-programmed batteries, BMS and inverter, making it a quick installation.

The complete DC system stores energy, detects grid status, and automatically supplies your home when the national grid is compromised. Unlike generators, the **REVOV STAR** requires no maintenance or fuel, creates no fumes and is very quiet. Power can be stored from Solar or from Grid.

The batteries have a 16-cell configuration for long life and the flexibility to expand capacity by adding extra units, or to connect one **REVOV STAR** per phase. **Note:** The distribution board of the home will need attention by a qualified electrician, to sort into Essential and Non-Essential circuits and accompanying protection e.g. AC breakers.

### KEY FEATURES

- UPS (uninterruptible power supply) for backup for essential circuits in home and office.
- Pre-programmed, all-in-one, kit-pack contains everything a qualified installer would require to get a home or a small business up and running with a UPS 5kVA/10.2kWh, fully enclosed and protected unit.
- Cost effective solution with a rapid installation time.
- Supplies AC power – pure Sine Wave AC Output – seamless backup transition.
- Fast charging from grid (or solar).
- LCD Display – Battery charge info display.
- Optional remote monitoring function.
- **Note:** This unit is not IP rated so the unit must reside indoors.

### WARRANTY

**REVOV Batteries (PTY) LTD:** 10 years or 3 500 cycles at 1 cycle per day. Warranty for inverter depends on brand used in the STAR.

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

**CODE:** SYS – 2LiFe – STAR – 200 – 10.2



## 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.

## NOMINAL SPECIFICATIONS

### Matched Pair

<b>Nominal Voltage</b>	51.2 (25.6V x 2)
<b>Capacity (C/2) (Ah)</b>	200
<b>Energy (C/2) (kWh)</b>	10.2
<b>Maintenance</b>	Charge the battery every 6 months when in storage

## SPECIFICATIONS

<b>Nominal Voltage DC</b>	51.2V
<b>Energy Capacity</b>	10.2kWh
<b>Charge current</b>	60A
<b>Recommended Recharge</b>	4hours at 50A
<b>Single Phase AC Output</b>	220 - 240V AC
<b>Depth of Discharge</b>	100%
<b>Round Trip Efficiency</b>	90%
<b>Max Power - continuous</b>	5kW
<b>Unit Size: L x W x D</b>	1950mm x 550mm x 300mm
<b>Battery Size: Length x Width x Height (mm)</b>	520 x 442 x 170
<b>Battery Weight</b>	53kg each

**In-line Parallel Connect Up to 6 REVOV STARS**

## OPERATING CONDITIONS

<b>Designed Cycle Life + 25°C</b>	7000+ cycles
<b>Operating Temperature</b>	0~45°C
<b>Transport regulation compliance</b>	UN3480
<b>Storage temperature</b>	<b>Short term storage:</b> -10°C~+45°C (<3 months, SOC: 20%~60%) <b>Long term storage:</b> -10°C~+40°C (< 1 year, SOC: 30%~60%)
<b>EMC standard compliancea</b>	EN 61000 chapter 4.2, 4.3, 4.5, 4.6/EN55022
<b>Certificate</b>	TUV SUD/CE UL1642/ UN38.3
<b>Protection class</b>	IP20