

REV OV CUBE All-In-One Backup System



KEY FEATURES

- The CUBE is a 5kVA/10.2kWh or 5kVA/5.1kWh Pre-configured UPS (uninterruptible power supply) with immediate backup transition from electricity to battery power.
- Compatible for Solar Panels with built-in MPPT solar charge controller 80A.
- No maintenance or fuel required, creates no fumes or noise.
- Warranted for daily cycling with built in protection
- Pure Sine Wave AC Output- long-lasting and safe, will not damage your appliances
- Fast charging from grid (or solar).
- Optional remote monitoring function.
- Three phase configurations available on request (3 CUBE units).

Note:

The **CUBE** is not IP rated so the unit must be installed indoors.

FREEDOM FROM DEPENDENCE

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The **REV OV CUBE** is a compact, fully integrated, and all-in-one backup system with pre-programmed batteries, a pre-cabled BMS and a 5kW inverter with 80A MPPT. This UPS comes in 2 storage sizes with either one or two of the **REV OV 2nd Life** R100 batteries.

The entire unit contains all the necessary wiring and correct fusing, thereby making it quick to install and easy to store in a neat 19-inch racked unit. Its cubed shape makes it easy to fit under any counter height space, typically found in offices or homes.

The complete 5.1kWh / 10.2kWh units are perfect for residential or small business requiring backup power such as call centres, and it is housed and protected in a steel cabinet, keeping it clean and dust free. This DC system stores energy, detects grid status, and automatically supplies your home when the national grid is compromised.

Note: A qualified installer and/or electrician will need to install the **CUBE**.

WARRANTY

REV OV Batteries (PTY) LTD: 10 years or 3 500 cycles at 1 cycle per day. 1 year warranty for **MUST** inverter used in the **CUBE**.

DOD When used properly every day the **CUBE** can be safely discharged to 100% of its rated 100Ah or 200Ah capacity. Battery life is shortened if it is discharged beyond its rated Ah capacity. Battery must be charged to 100% SOC on every cycle to ensure warranty and 100% SOC alignment.

BMS FUNCTION

- Cell and battery voltage maintenance.
- Cell, ambient and MOSFET temperature monitoring.
- LCD display of the battery performance.
- Cells balancing intelligence.
- Watchdog protection for safe charge and discharge operation of current and voltage.

SYSTEM SPECIFICATIONS

Storage Size	200Ah	100Ah
Energy Capacity	10.2kWh	5.1kWh
Recommended Charge Current	80A	40A
Recommended Recharge Time	4 hrs @ 40A	2hrs @ 40A
Single Phase Output	220 – 240VAC	
Available Depth of Discharge	100%	
Round Trip Inverter Efficiency	90%	
Max Peak Power Output	5kW	
PV Operating Voltage	60 – 130VDC	
Max PV Charge Current	80A	
Max PV Array Power	4000w	
Maximum PV Array Open Circuit Voltage	145VDC	
Unit Size: L x W x H	600 mm x 600mm x 635mm	
Unit Weight	124kg	82kg

STORAGE SPECIFICATION

Nominal Capacity	200Ah	100Ah
Nominal Energy	10.2kWh	5.1kWh
Nominal Voltage	51.2V	
Maintenance	Charge the battery every 6 months when not in use	
Design Life + 25 C (<- make degrees)	5000+ cycles	
Operating Temperature	0-45°C	
Transport Regulation	UN3480	
Storage Temperature	-10°C-+45°C (< 6 months, SOC: 20%-60%)	
EMC Standard	EN 61000 chapter 4.2, 4.3, 4.5, 4.6/EN55022	
Certificate	TUV SUD/CE UL1642/UN38.3	
Protection Class	IP20	



REVOLV CUBE 10.2 kWh