

Introduction

- ▶ RV12100 is a high-performance lithium battery pack, which has high energy density, good discharge performance, high charging and discharging efficiency, and small battery volume.
- ▶ RV12100 has a long lifespan, light weight, easy installation, and maintenance free features.

Features



Cost Effectiveness



Longer Service Life



Guaranteed Safety



Smart Management



Fast Charge



Drop-in Replacement

Discharge

Discharging Time Cut-off voltage 10.8V/25°C	1h	2h	3h	5h	10h
Constant Current Discharge	100A	50A	33.3A	20A	10A
Constant Power Discharge	1280W	640W	426W	256W	128W

Attentions:

- When the battery needs to be used in parallel or in series, each battery shall be fully charged according to the standard charging method before parallel or in series.
- After the battery is deeply discharged. It should be charged in a timely manner. Otherwise, BMS may not work due to low voltage, and the battery may permanently fail.

Item		RV12100
General parameter	Nominal voltage	12.8V
	Nominal capacity/energy (25°C,0.2C)	100Ah/1280Wh
	Weight	10.6Kg
	Cell positive material	LiFePO4
	Terminal Type	M8
	Dimensions (W * D * H)	260*168*230mm
	IP rating	IP65
	Case Material	ABS
	Cycle life (25°C, 0.2C)	2000 @80% DOD
	Design life (25°C)	10 years
Electrical parameter	Optional function	Heating, Bluetooth
	Operating voltage	10V-14.8V
	Max. charge/discharge current (25 °C)	50A/100A
	Recommended charge /discharge current (25 °C)	50A/50A
	Recommended charge voltage	14.6V
	Battery input protection	BMS
	Self discharge (25 °C)	< 5%@3 month
	Internal resistance	≤12mΩ@100%SOC
BMS parameter	Maximum Modules in Series or paralleling	4pcs/4pcs
	Protection function	Overvoltage protection, overcurrent protection, low-voltage protection, over temperature protection, low temperature protection, short circuit protection
	Charge Protection	Primary: >60A;
	Discharge Protection	Primary: >110A; Secondary: > 330A
	Over-charge Voltage Protection	>14.6V
	Over-discharge voltage protection	<10V
Environment	High Temp. Protection	65±3°C, Recover: 55±3°C
	Low Temp. Protection	charge : 0°C, Recover: 5°C discharge : -20°C, Recover: -15°C
	Charging temperature	0~55°C (without heating film)
	Discharging temperature	-20~60°C
	Storage temperature	-10°C~45°C
	Relative humidity	5%~95% (non condensing)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operation closer than this distance are not recommended

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