

RV12100CH



APPLICATION

RV12100CH is designed to replace deep cycle lead-acid batteries. The battery is perfect for recreational vehicles (RV), trucks, cabins, and other off-grid deep-cycle applications.



50%

lighter than the lead acid battery of the same capacity.



30%

higher than the energy density of the LiFePO₄ battery of the same capacity.



1S8P

Up to 8 batteries in parallel connection, building a battery system with a max. energy output of 10.24 kWh.



Self-heating

The internal heating film allows the battery to be charged in extreme cold.



4000+

More than 4,000 lifecycles to maximum your ROI.

SPECIFICATION

Model: RV12100CH

Electrical Specifications

Nominal Voltage	12.8 VDC
Nominal Capacity	100 Ah
Resistance	< 10 mΩ
Efficiency	99%
Self Discharge	≤ 3% per month
Max. Batteries in Parallel	8
Cycle Life	> 4000
Max. Continuous Discharging Current	100 A
Peak Discharging Current	200 A@10 s
Max. Continuous Charging Current	100 A
Recommended Continuous Charging Current	≤ 50 A
Recommended Charging Voltage	14 V~14.4 V

Environment Specifications

Recommended Storage Temperature	50 °F ~ 104 °F (10 °C ~ 40 °C)
Storage Temperature Range	-4 °F ~ 140 °F (-20 °C ~ 60 °C)
Operating Temperature	-4 °F ~ 122 °F (-20 °C ~ 50 °C) *If charging is required when the temperature is below 32 °F (0 °C), please connect the charger to enable the heating film. The battery starts charging when the cell temperature is heated to above 32 °F (0 °C).
Max. Altitude	13123 ft (4000 m)
Relative Humidity	5% ~ 95% (non-condensing)

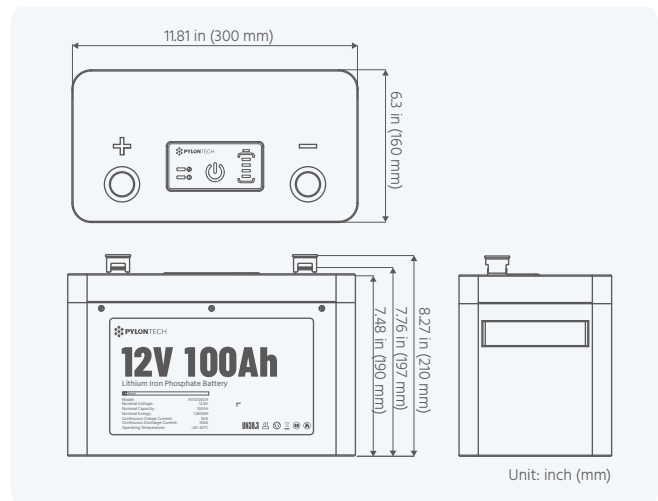
Other

Certifications	UN38.3, MSDS, IEC62619
Heating Film	Support

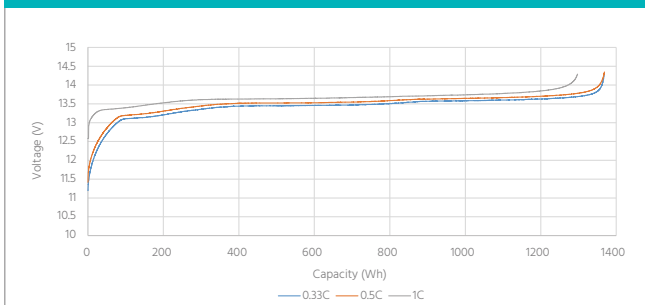
Mechanical Specifications

Dimensions (L × W × H)	11.81 × 6.3 × 8.27 in (300 × 160 × 210 mm)
Weight	Approx. 26.46 lbs (12 kg)
Terminal Type	M8 × 1.25 × 14 mm
Terminal Torque	8 ± 1 Nm
Case Material	Metal
IP Rating	IP20
Cell Type-chemistry	LiFePO ₄
Cooling	Natural Cooling

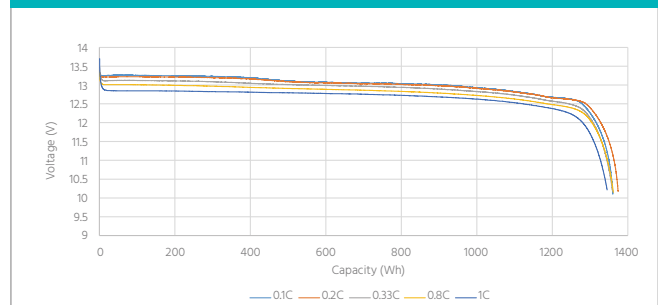
Dimensions



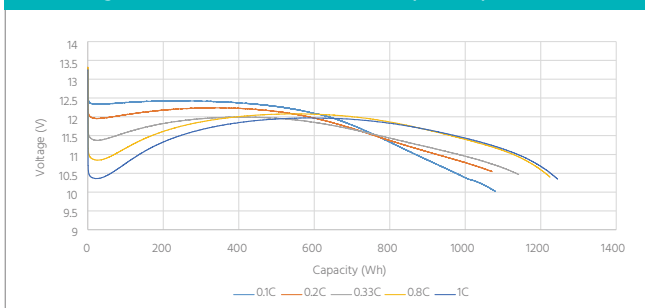
Charge at different rates at 77 °F (25 °C)



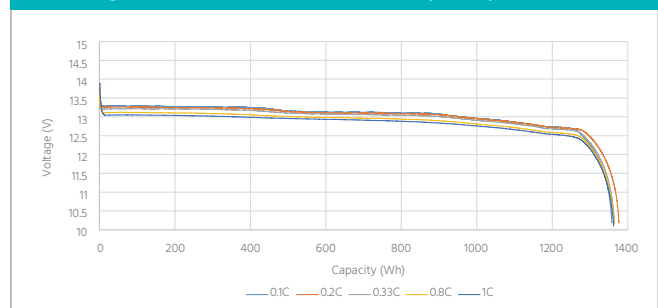
Discharge at different rates at 77 °F (25 °C)



Discharge at different rates at -4 °F (-20 °C)



Discharge at different rates at 122 °F (50 °C)



*Product performance is based on testing in a controlled environment. Your results may vary due to several external and environmental factors.

