

ELIOS | Litio 1.28H-BT











12.8V 100Ah / 1280Wh Heated Bluetooth LiFePO4 Battery

Data Sheet



The Elios Litio1.28H-BT is a high-performance lithium-ion battery built with long-lasting prismatic LiFePO₄ cells for reliable and stable energy storage. Its durable design ensures consistent performance across a wide temperature range, backed by full safety certifications and built-in protections. Compact, easy to install, and scalable via parallel connection, it adapts to a variety of setups. With a 20+ year lifespan when installed in an RV and up to 6,000 cycles at 50% DOD, it provides a dependable solution for RV installations, low-power off-grid systems, commercial vehicles, and other setups where space is limited. It is suitable for both daily use and emergency situations.

Features & Benefits

-  Long-life prismatic LiFePO₄ cells, ideal for energy storage systems.
-  Low-voltage configuration ensures enhanced operational safety.
-  Flexible, user-friendly installation with wall-mount support.
-  Integrated RS485 and CAN communication ports for seamless system integration.
-  Built-in protections: Over Voltage (OVP), Low Voltage (LVP), Over Current (OCP), Over Temperature (OTP), and Low Temperature (LTP).
-  Designed for durability, offering a 20+ year lifespan.
-  The battery features an integrated heating system and Bluetooth connectivity.
-  The battery is compatible with the Victron Energy Cerbo, and the communication cable is included in the box.

Certifications

Cell certification: UN38.3, ROHS, UL1973, UL9540 | Battery certification: UN38.3, MSDS

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SPECIFICATIONS

Cell and Connection	CB27173204EA 1P4S
Nominal Voltage (V)	12.8
Nominal Capacity (Ah)	100
Total Energy (Wh)	1280
Max. Charging Current (A)	50
Recommended Charging Current (A)	50
Charging Voltage (V)	14.2 ~ 14.6
Max. Discharging Current (A)	80
End of Discharge Voltage (V)	11
Operating Temperature Range	Charge: -25 ~ +50°C Discharge: -25 ~ +55°C
Protection	Over charge, over discharge, over temperature, low temperature, over current, short circuit
Cycle Life	> 3500 cycles at 90%DOD, >6000 cycles at 50% DOD
Designed Calendar Life	20+ years installed in an RV
Communication Port	RS485;CAN
LED Indicator and Button	SOC, ALM, RUN, ON/OFF
Dimensions (W*D*H)	560*250*70 mm / 22.05*9.84*2.76 in
Weight	14 kg / 30.86 lb
Operation Humidity	0 ~ 95% RH (No condensing)
IP Class	IP30
Parallel Support (*)	Yes, Max, 4 Sets
Certification-Cell	UN38.3; ROHS; UL9540; UL1973
Certification-Battery	UN38.3; MSDS
Optional Parts	Internal Bluetooth, RS485-USB cable, Heater parts (100W)

*Note: For parallel connection operation, refer to user manual.

Applications

- Home energy storage systems
- Small commercial places
- Outdoor equipment power supply
- Mobile device power supply
- Recreational vehicles

Warranty

- 5 years

Dimensions

