

# LIFELINE

...the heart of your system®



## LL-12V128-GC2

LiFePO4 with Bluetooth Connectivity!

[www.lifelinebatteries.com](http://www.lifelinebatteries.com) • 1-800-527-3224

**“DROP-IN” FIT** - Lifeline Lithium batteries are a drop-in fit replacement for most standard lead acid battery sizes.

**INTERNAL HEATING** - The built in BMS Heating System allows for cold temperature charging down to -4°F/-20°C and discharging as low as -22°F.

**BLUETOOTH** - With a built in Bluetooth chip, you can easily monitor the status of each of your batteries from your smart devices. (iOS and Android)

**MORE USEABLE ENERGY** - Lead Acid and AGM batteries drop below 12 volts and their lifespan is decreased when discharged below 50%. Lifeline Lithium batteries will provide 12 volts for 100% of their rated capacity. This effectively doubles the amount of usable energy.

**EXTREME CYCLE LIFE** - Lifeline Lithium can easily be discharged 100% at least 2000 times and up to 6000 times at 50%, compared to regular lead-acid batteries which only allow 300-400 cycles at 100% and 1000 cycles at 50% depth of discharge.

**LIGHTWEIGHT** - Lifeline Lithium batteries are 1/3 of the weight of regular lead acid batteries.

**QUICK RECHARGE** - Lifeline Lithium batteries do not require a FLOAT charging stage. Due to their superior charging efficiencies, they charge in a fraction of the time it takes for Lead Acid/AGMs.

**SAFETY** - With each Lifeline Lithium battery having an internal BMS, you can rest assured knowing that you never have to worry about damaging another battery due to low or high temperatures or low or high voltages.

Easily monitor your Lifeline Lithium battery with the Lifeline Batteries Bluetooth App for iOS and Android devices!



- State of Charge Percentage (SOC)
- Individual Battery Voltage
- Charge and Discharge Current
- Number of Cycles Used
- Full Charge Capacity
- Average Time to Empty
- Average Time to Full Charge
- Up to 50' Range



Specifications	
Cell Type	LiFePO4
Nominal Voltage	12.8V
Amp Hour Capacity	128 Ah
Watt Hour Capacity	1.638KWh
Specific Energy	110Wh/kg
Resistance	≤20 mΩ @ 50% SOC
Charge Efficiency	99%
Cycle Life (0.2C, 77°F, 25°C)	6000 Cycles (50% DOD)
Dimensions	
Terminal Bolt Size	M8 x 1.25 - 20
Certifications	UN38.3, CE, UL1642, IEC62133
Shipping Classification	UN3480, Class 9
Dimensions	10.25 x 7.12 x 10.25
Weight	34.4 lbs
Torque	79.7-88.5 in-lbs. 6.6 -7.4 ft-lbs 9-10 N-m
Enclosure Protection	IP67
Case Flame Rating	UL94-V0
Charging	
Maximum Continuous Charging Current	128A @ 77°F (25°C)
Recommended Charge Voltage	14.4V – 14.6V
BMS Charge Cut-Off Voltage	15.4V
BMS Reset Voltage	14.4V – 14.6V
Balancing Voltage	14.4V - 14.6V
Float Voltage	13.6V or <i>Disabled</i>
Equalization Voltage	14.4V or <i>Disabled</i>
Temperature Compensation	0 or <i>Disabled</i>
Discharging	
Maximum Continuous Discharge Current	150A
Peak Discharge Current	250A – 10sec
BMS Discharge Cut-Off Current	300A
Low Voltage Disconnect	10.0V
Reconnect Voltage	>10.0V
Temperature	
Recommended Charge Temperature	32 – 113°F (0 -45°C)
Recommended Discharge Temperature	-4 – 140°F (-20 – 60°C)
Discharge Protection	-22° – 149°F ( -30 – 65°C)
Charge Protection	32 ~ 131° F (0 ~ 55° C)
Reconnect Temperature	131° F (65° C)
Storage Temperature	23 ~ 95° F (-5 ~ 35° C)