

# LITHIONICS BATTERY®

LITHIUM ION IRON PHOSPHATE BATTERY SYSTEMS



## GROUP 31 DROP-IN INDUSTRY PERFORMANCE EVALUATION



12V100A

12V130A-G31

Item	Typical Specification	Lithionics Specification	Lithionics ADVANTAGE
Usable Capacity	1,280 Watt-hours	1,600 Watt-hours	30% more energy in the same Group 31 case
Power Reserve	Not Available	Yes, NeverDie® Power Reserve	10% energy reserve with a button push
Internal Resistance (mΩ)	6.2mΩ	3.5mΩ	44% more efficient: lower heat, longer battery life, more power flow
Weight	31.8lbs/14.42kg	33.4lbs/15.15kg	30% more energy for 5% more weight
Energy Density	88Wh/kg	105Wh/kg	More energy for its weight
Volume	12.75 x 6.875 x 9 = 789in2	12.5 x 6.5 x 8.46 = 687in2	13% smaller volume with 30% more energy
Surge Discharge Rate	200 Amps for 30 seconds	400 Amps for 30 seconds	TWICE the surge capability for heavy loads
Bluetooth	NO	Bluetooth 5.0 BLE	Use the free app to view Voltage, Amperage, SoC%, Status Codes and more
State-of-Charge (SoC) Percentage	NO	YES, via free App	Quickly know how much energy is left
Protective Functions	High/Low Voltage, High/Low Temperature, Short Circuit Protection	UL Compliant Protective Safety Functions including High-Low Voltage, High-Low Temperature, Short Circuit and Over-Current	UL Compliant functions are safer and increase cycle life
Designed for Engine Cranking	NO	YES	Reliable Back-Up Engine Starting
Cranking Amps Rating	NO Rating	1,000 Amps	High Cranking Amps
Voltage Quality at 100 Amp Load	12.3V	12.6V	Less voltage sag means more efficiency
On/Off Button	NO	YES	Turn loads on/off directly from battery, safe installation with battery off
LED Indicator	NO	YES	Indicates Battery ON State, Flashes During Faults
Wireless Troubleshooting	NO	YES	Status Codes indicate the state of the battery instead of guessing

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