

12V 7.5Ah Lithium Ferro Phosphate (LFP) Battery Spade Terminal Connections



The genZ range of plastic cased batteries have been specifically designed to operate with both existing as well as new designs that would ordinarily accommodate Sealed Lead Acid (SLA) batteries.

All genZ batteries are fitted with a sophisticated Battery Management System (BMS) ensuring both a long life and many safety features.

Model	GC12V-007LFP-B
Nominal Voltage	Direct Current (DC) 12.8V
³ Nominal Capacity	7.5Ah or 96Wh
Nominal Current	≤ 5.0 Amps
Maximum Current	5 to 7 Amps for ≤ 5 Minutes
Min/Cut-off Charge Current	75mA < cut-off < 150mA
Maximum Charge Current	≤ 5.0 Amps
Charge Voltage	14.4±0.15V
Charge Mode	Constant Current ≤ 5 Amps to 14.4V, then Constant Voltage of 14.4V until charge current reaches between 75mA to 150mA
Internal Impedance	≤ 75mΩ
³ Charge/Discharge cycles to specified Depth of Discharge (DoD) Capacity retention >80%	≥ 5000 cycles @ 80% DoD
Warranted Operating Temperature Limits	Charge 0° to 45°C and Discharge -20° to 60°C
Operating Humidity (non-condensing)	85%
IP Rating	IP50
Battery Dimensions (W x H x D)	151±1mm x 65±1mm x 92±1mm
Terminal Connection	Automotive Spade (Male) Terminals
Weight	Approximately 1.1±0.1 kg
^{1,2} BMS Over Volt cut off	Approximately 14.6V
^{1,2} BMS Under Volt cut off	Approximately 10V
² BMS Short Circuit cut off	70A±20
² BMS Over Temp cut off	65±3°C
Charge time Approx.	1.5 hours at 5.0 A
Self-Discharge	< 14% per annum @ 25°C
Round Trip charge/discharge efficiency	≥ 96%
Battery Management System (BMS)	Automatically protects the battery and recovers from: <ul style="list-style-type: none">• Over Voltage• Under Voltage• Short Circuit• Over Temperature
BMS Cell Balancing	Passive
UN Type Number (Battery chemistry)	UN 3480
Lithium Composition	As Lithium Ferro Phosphate, LiFePO ₄ or LFP
Decisive Voltage Classification (DVC)	Class A
Casing /Coating	Plastic, ABS
Other	Certification and Warranty: See genz.com.au for details

1 The over and under voltage cut-out may vary from that stated due to the BMS protecting the internal cell voltages ahead of overall pack voltage.

2 These parameters are fixed within the BMS and are not adjustable.

3 For charge at ≤5 Amps and discharge at ≤1.5 Amps, operating at 25°C.



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Scalable Energy Storage Solutions