

FDC-GC51-105L

Datasheet

FULBAT[®]

MOTIVE POWER BATTERY



LiFePO₄



FDC-GC51-105L is a part of our FDC Deep Cycle Lithium batteries. Specially designed to offer a lighter, longer life and higher power solution to Lead-acid batteries, this 51.2V 105Ah battery offers optimum safety thanks to a built-in Battery Management System (BMS).

Maintenance free (no more watering required), the battery will deliver exceptional performance and unmatched reliability for electric vehicle such as Golf cart, Utility vehicle...

FEATURES

- » Extended Lifespan & High Cycle Time: up to 5,000 cycles – far exceeding Lead-acid batteries
- » High Energy Density: >160 Wh/kg (2-3× higher than Lead-acid's 50-70 Wh/kg)
- » Lightweight Design: 50% lighter weight Vs Lead-acid batteries reducing vehicle load
- » Fast Charging: 1-2 hour charging – ideal for high-frequency golf cart operations
- » High Efficiency: stable voltage output ensures consistent performance on challenging terrain.
- » Maintenance-Free: no watering or maintenance.
- » Smart BMS Protection: self-protection against short-circuit, overheating, overcharge, overdischarge and cell balancing
- » Option: external display with CAN communication interface

APPLICATIONS



Golf cart

SPECIFICATIONS

Nominal voltage	51.2V
Nominal capacity	105Ah
Energy	5376Wh
Cycle life	Up to 5000 cycles at 80% DOD
Monthly self discharge	≤2% per month
Communication	CAN/RS485 optional
Terminal	M8 Bolts, 12±2N·m
Standard charge	
Charging freeze protection	<0°C
Charge current	50A
Max charge current	100A
Upper limit voltage	58.4V
Standard charge	
Max continuous current	200A
Max discharge current	550A@3S
Short circuit current	4000A
Lower limit voltage	42.5V
BMS voltage recovery	44.8V
Operating temp. range	
Charge temperature	0°C to 55°C
Discharge temperature	-20°C to 60°C
Storage temperature	-10°C to 35°C
Container material	Powder Coated Steel
IP Rate	IP65

DIMENSIONS & WEIGHT

Length	550±2mm
Width	248±2mm
Total height	265±2mm
Gross weight	46.8kg

