

FDC-GC51-160

Datasheet

FULBAT[®]
MOTIVE POWER BATTERY



LiFePO₄



FDC-GC51-160 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 160Ah 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...

SPECIFICATIONS

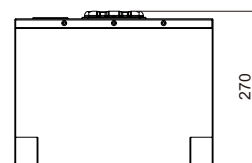
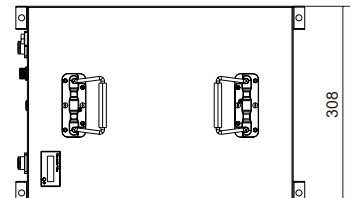
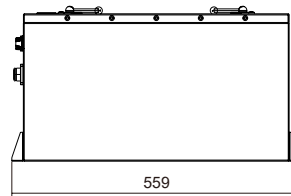
Nominal voltage	51.2V
Nominal capacity	160Ah
Energy	8192Wh
Cycle life	Up to 5000 cycles at 80% DOD
Monthly self discharge	≤2% per month
Communication	CAN/RS485 optional
Terminal	M8 Bolts, 12±2N·m
Standard charge	
Charging freeze protection	<0°C
Charge current	80A
Max charge current	160A
Upper limit voltage	58.4V
Standard discharge	
Max continuous discharge	200A
Max discharge current	550A@5S
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

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

DIMENSIONS & WEIGHT

Length	559±2mm
Width	308±2mm
Total height	270±2mm
Gross weight	66.5kg



APPLICATIONS



Golf cart