

# FDC-GC51-105S

## Datasheet

# FULBAT<sup>®</sup>

MOTIVE POWER BATTERY



LiFePO<sub>4</sub>



**FDC-GC51-105S** 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...

### SPECIFICATIONS

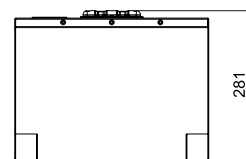
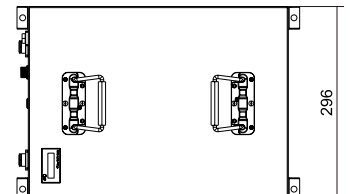
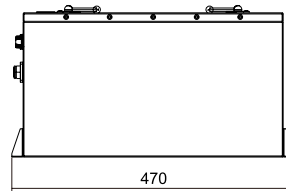
<b>Nominal voltage</b>	51.2V
<b>Nominal capacity</b>	105Ah
<b>Energy</b>	5376Wh
<b>Cycle life</b>	Up to 5000 cycles at 80% DOD
<b>Monthly self discharge</b>	≤2% per month
<b>Communication</b>	CAN/RS485 optional
<b>Terminal</b>	M8 Bolts, 12±2N·m
<b>Standard charge</b>	
Charging freeze protection	<0°C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

<b>Length</b>	470±2mm
<b>Width</b>	296±2mm
<b>Total height</b>	281±2mm
<b>Gross weight</b>	46.0kg



### APPLICATIONS



Golf cart