

### • ESSENTIAL LI®

- BCI Group N/A, 51.2V
- Reserve Capacity (Ah): 105
- Energy [kWh]: 5.38
- Weight: 92.6 lbs.
- Length: 17.44 in (443 mm)
- Width: 12.60 in (320 mm)
- Height: 10.32 in (262 mm)
- M8



U.S. Battery's exclusive new Essential Li® Lithium-ion battery line is engineered with safety in mind and features redundant control mechanisms and Lithium Iron Phosphate (LFP) cell chemistry, widely considered the safest and most robust option currently available. Each battery features an intelligent built-in Battery Management System (BMS) that monitors the status of the pack. The new line is designed to be a long-lasting, maintenance-free, lightweight, alternative option to Lead Acid batteries.

### Essential Li Features:

- **IP67 rated construction** prevents damage from outside particles and moisture.
- **CAN Networking** automotive grade connections allow manufacturers to integrate the battery with devices such as motor controllers and chargers to allow for communication of battery status.
- **Scalable** multiple batteries can be used in parallel for increased capacity
- **State-of-the-Art Battery Management System (BMS)** Utilizes intelligent algorithms to help ensure accurate State of Charge (SOC), delivers advanced cell balancing, and enhanced fault detection and handling for optimal performance



## DATA SHEET

MODEL **US 48V 105**

VOLTAGE **51.2V**

CAPACITY **105Ah**

INTELLIGENCE **Battery Management System (BMS)**

BATTERY TYPE **Lithium Iron Phosphate (LFP)**

### PRODUCT + PHYSICAL SPECIFICATIONS

BCI Group Size	Type	Voltage	Terminal Torque	Terminal Type <sup>G</sup>	Dimensions <sup>C</sup> Inches (mm)			Weight Lbs. (kg)
					Length	Width	Height <sup>F</sup>	
-	US 48V 105	<b>51.2</b>	<b>90 IN-LBS</b>	<b>M8</b>	<b>17.44 (443)</b>	<b>12.60 (320)</b>	<b>10.32 (262)</b>	<b>92.6 (42)</b>

### ELECTRICAL SPECIFICATIONS

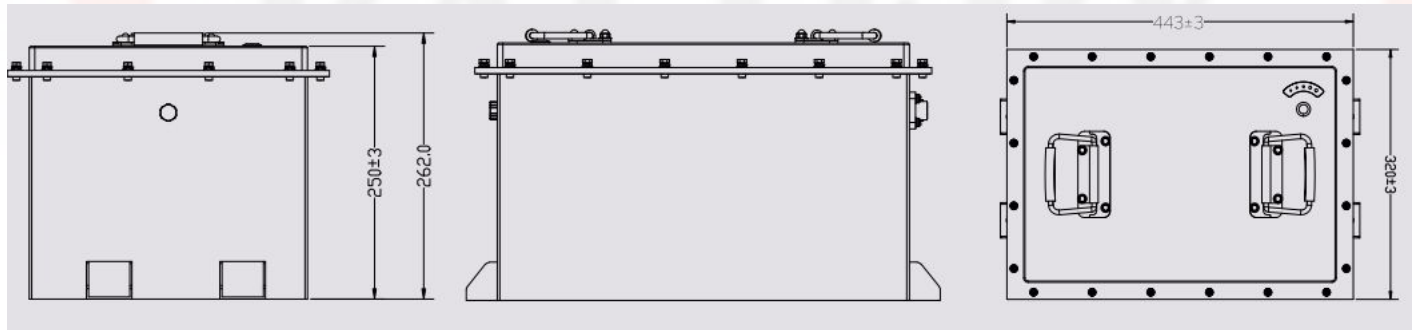
Capacity	Max Continuous Discharge Current	Max 30s Discharge Current	Max 10s Discharge Current	Max Charge Current	Self Discharge Rate	Low Voltage Cutoff	High Voltage Cutoff
<b>105 Ah</b>	<b>150A</b>	<b>250A</b>	<b>300A</b>	<b>105A</b>	<b>3.5%/month</b>	<b>40V</b>	<b>58.4V</b>

### OPERATIONAL SPECIFICATIONS

Discharging	Charging	Storage
-14° F~140° F (-10° C~60° C)	32° F~122° F (0° C~50° C)	50° F~95° F (10° C~35° C)

### SAFETY/REGULATORY INFORMATION

Certifications			
Transport	Shipping Classification	Cells	Pack
UN/DOT 38.3	UN3480, Class 9	UL2580	-



# US 48V 105 - DATA SHEET

