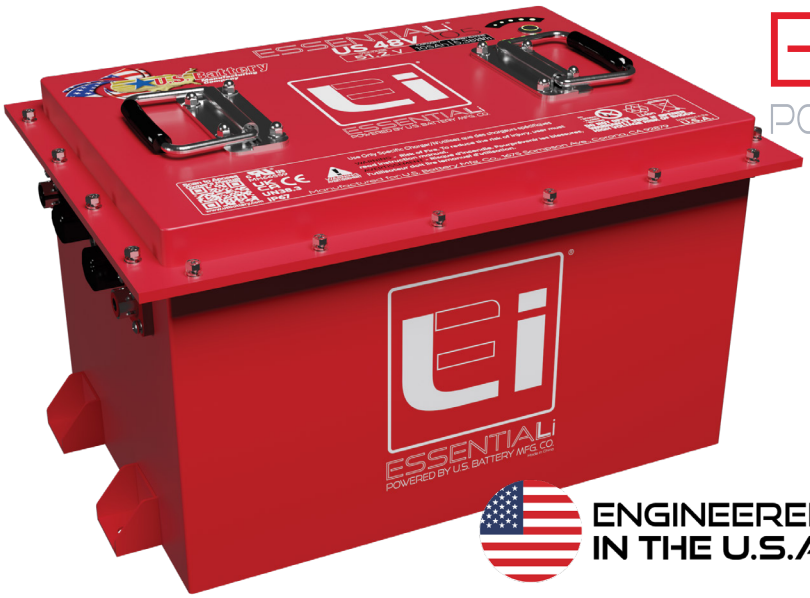
US 48V105 - Data Sheet

ESSENTIALi®

POWERED BY U.S. BATTERY MFG. CO.



ENGINEERED IN THE U.S.A.

Lithium-Ion Battery
51.2 V | 105AH (5.38kWh)

CELL CHEMISTRY:
Lithium Iron Phosphate (LFP)

CASE:
SECC Steel

Dimensions:
17.44"w x 12.60"l x 10.32"h

BCI GROUP SIZE:
N/A

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.

BATTERY SPECIFICATIONS

BCI Group Size	Model	Terminal	Terminal Torque	Dimensions (mm)(±3mm)			Weight (kg)
				Length	Width	Height	
N/A	US 48V105	M8 insert	90 IN-LBS	17.44" (443)	12.60" (320)	10.32" (262)	92.6 (42)

Internal Protection information: See User's Guide ***www.usbattery.com/info-center/essentialliowner***

ELECTRICAL SPECIFICATIONS

Voltage	Capacity	Max Continous Discharge Current	Max 30S Discharge Current	Max 10S Discharge Current
51.2 V	105 Ah	150A	250A	300A

Max Charge Current	Self Discharge Rate	Low Voltage Cutoff	High Voltage Cutoff
105A	3.5%/month (In Off Mode)	40V (Cell 2.5V)	58.4V (Cell 3.65V)

OPERATIONAL SPECIFICATIONS

Discharging	Charging	Storage
14°F~140°F (-10°C~60°C)	-4°F*~131°F (-20°C*~55°C)	50°F~95°F (10°C~35°C)

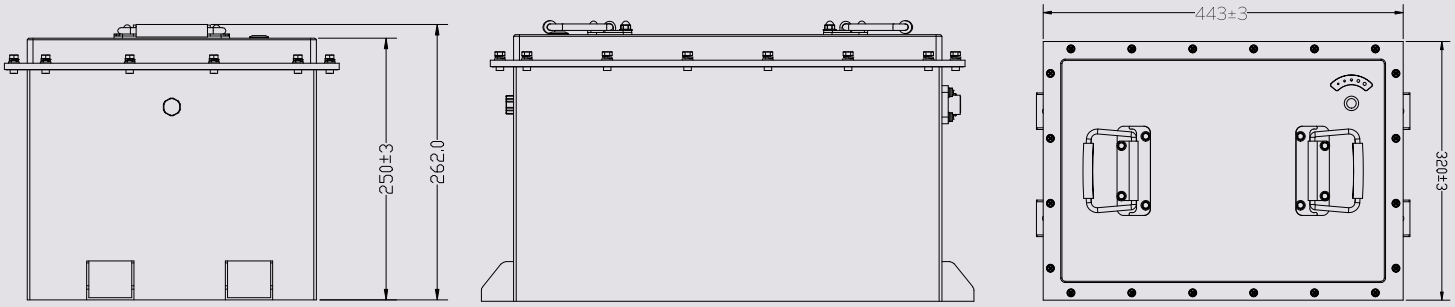
*Charging below 0C/32F is only possible when using a compatible, CAN enabled charger.

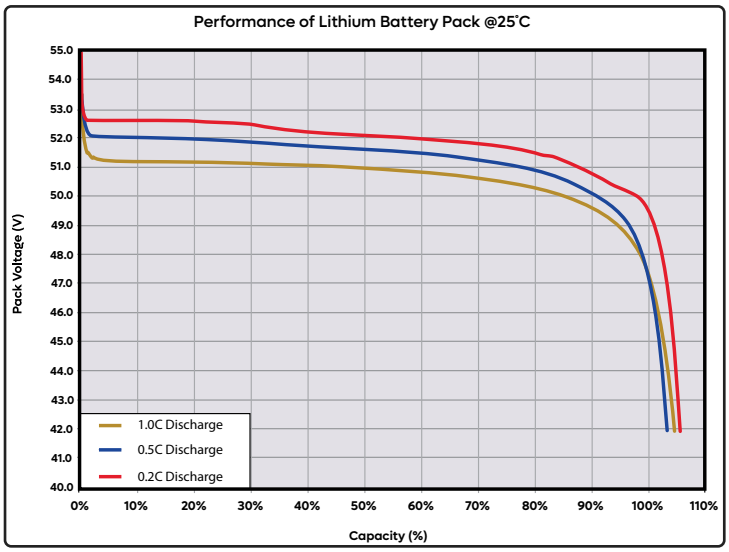
SAFETY/REGULATORY INFORMATION

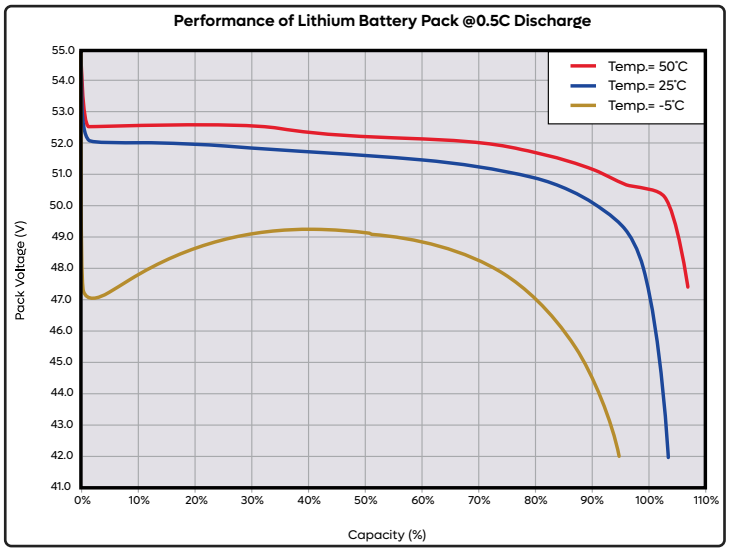
Certifications			
Transport	Shipping Classification	Cells	Pack
UN/DoT 38.3	UN3480, Class 9	UL2580	UL2271, CE/UKCA

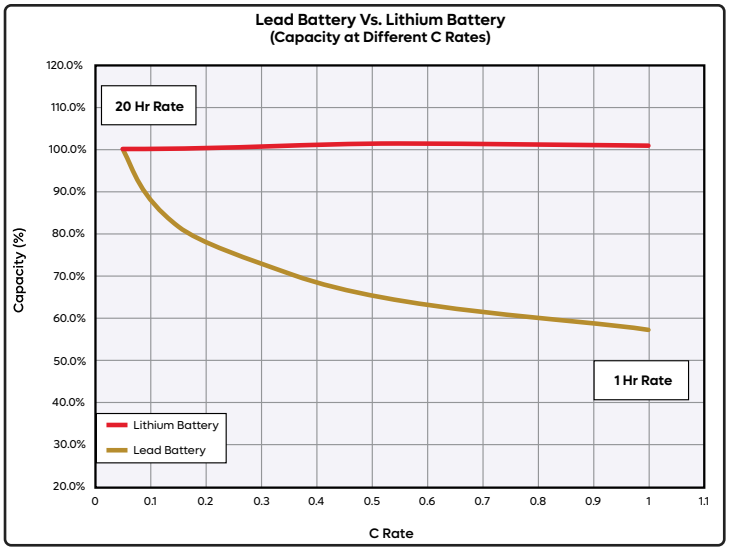
LI-ion

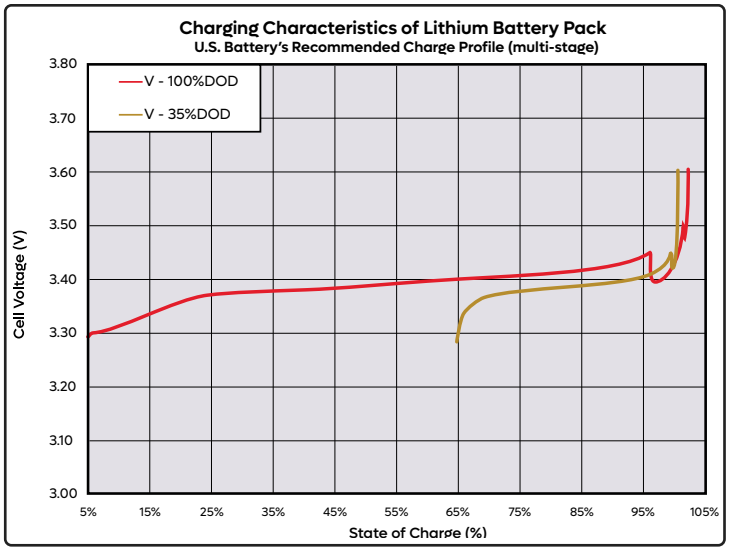
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