US 48VGC2 - Data Sheet

ESSENTIALi®

POWERED BY U.S. BATTERY MFG. CO.

Lithium-Ion Battery
51.2 V | 30AH (1.5kWh)

CELL CHEMISTRY:
Lithium Iron Phosphate (LFP)

CASE:
ABS + PC with Aluminium Heat Sink

Dimensions:
10.24"w x 7.09"l x 11.04"h

BCI GROUP SIZE:
GC2

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)(±2mm)			Weight (kg)
				Width	Length	Height	
GC2	US 48VGC2	M8 insert	90 IN-LBS	10.24" (260)	7.09" (180)	11.04" (280)	32.2 (14.6)

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

ELECTRICAL SPECIFICATIONS

Voltage	Capacity	Max Continous Discharge Current	Max 20S Discharge Current	Max 10S Discharge Current
51.2 V	30 Ah	100A	150A	175A

Max Charge Current	Self Discharge Rate	Low Voltage Cutoff	High Voltage Cutoff
30A	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	Case
UN/DoT 38.3	UN3480, Class 9	UL2580	UL2271	UL94 V-0

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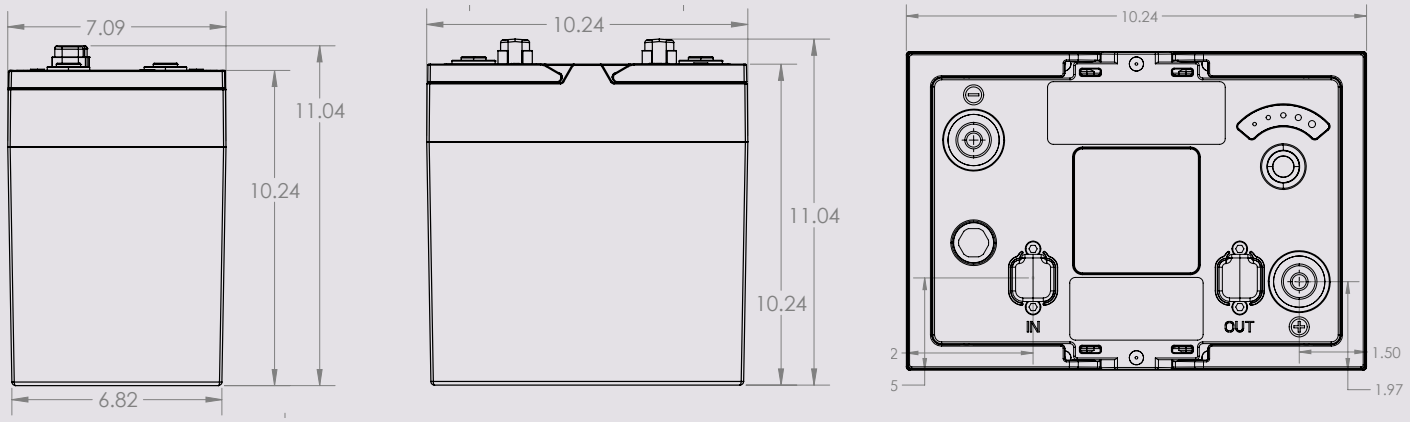

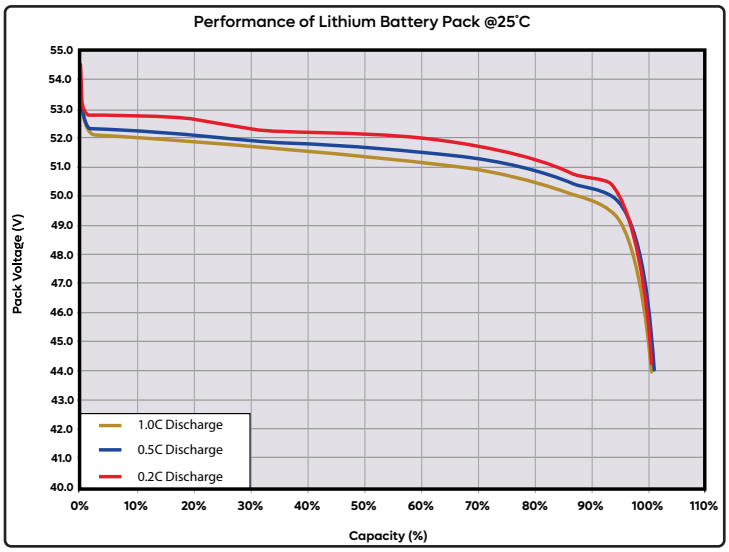

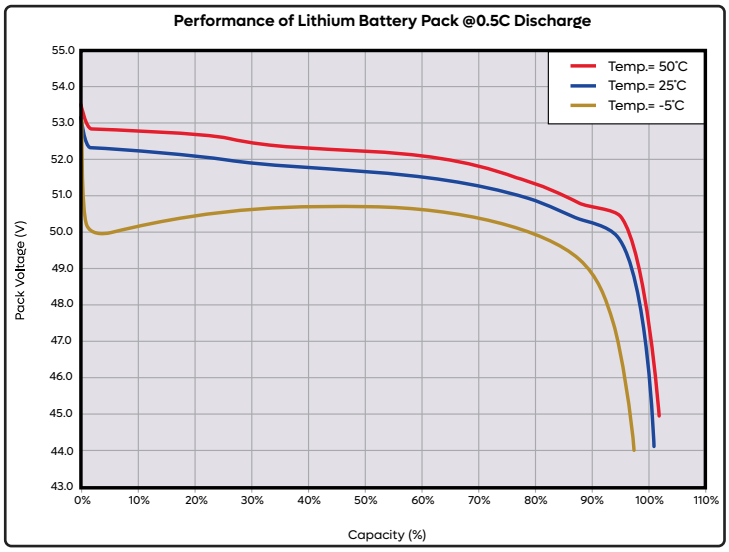

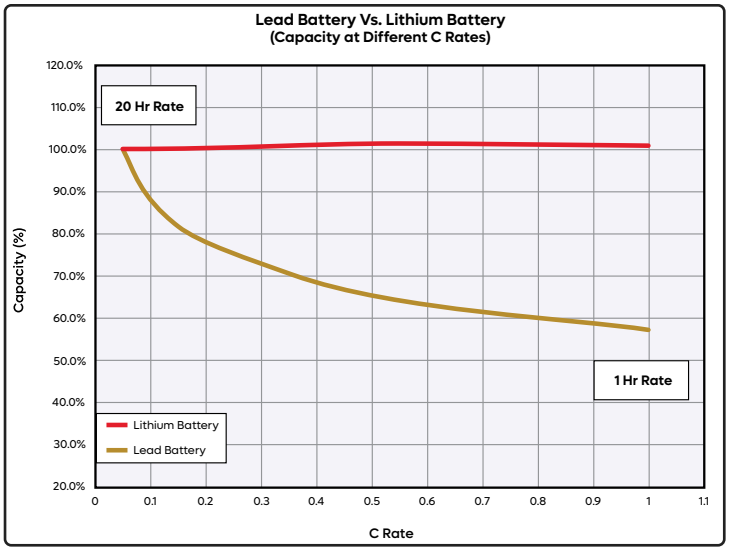

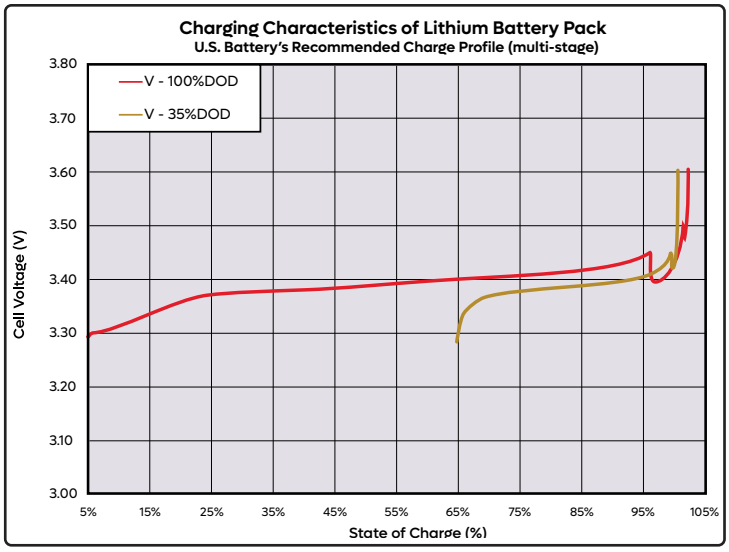

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