

US 12VG24 - Data Sheet

ESSENTIALi[®]

POWERED BY U.S. BATTERY MFG. CO.



Lithium-Ion Battery
12.8 V | 100AH (1.28kWh)

CELL CHEMISTRY:

Lithium Iron Phosphate (LFP)

CASE:

ABS

Dimensions:

10.24" w x 6.61" l x 8.27" h

BCI GROUP SIZE:

24

FEATURES

- **IP65 rated construction** prevents damage from outside particles and moisture.
- **Mobile App Enabled** integrated into the battery allows users to monitor the State of Charge and pack status from their mobile devices.
- **Scalable** multiple batteries can be used in parallel for increased capacity.
- **Self-Heating** Integrated heating element enables charging in freezing conditions.
- **Integrated Battery Management System (BMS)** Helps ensure accurate State of Charge (SOC), cell balancing, and fault detection and handling for optimal performance.
- **Wake Button and LED Indicator** enables users to check the State of Charge and pack status.

BATTERY SPECIFICATIONS

BCI Group Size	Model	Terminal	Terminal Torque	Dimensions (mm)(±2mm)			Weight (kg)
				Width	Length	Height	
24	US 12VG24	M8 insert	90 IN-LBS	10.24" (260)	6.61" (168)	8.27" (210)	22.7 (10.3)

Internal Protection information: See User's Guide www.usbattery.com/essentialowner

ELECTRICAL SPECIFICATIONS

Voltage	Capacity	Max Continuous Discharge Current	Max 15s Discharge Current	Max 0.2s Discharge Current
12.8 V	100 Ah	100A	110A	300A
Max Charge Current	Self Discharge Rate	Low Voltage Cutoff	High Voltage Cutoff	
100A	<3%/month	10V (Cell 2.5V)	14.8V (Cell 3.7V)	

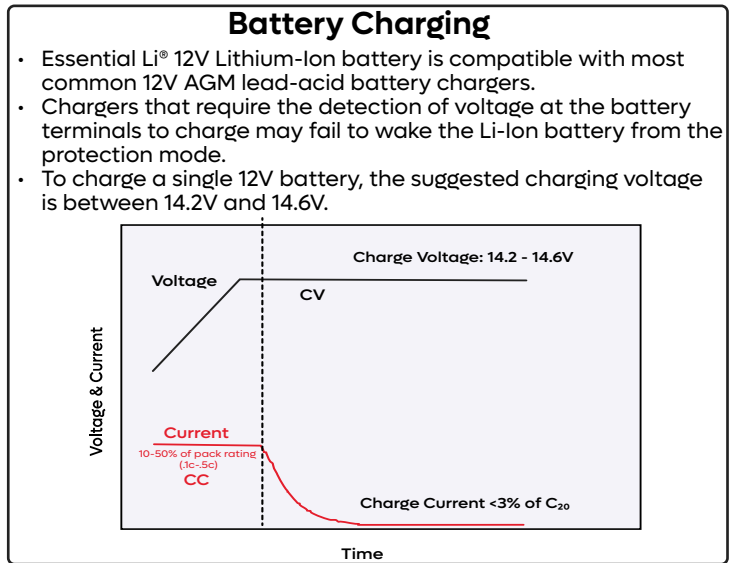
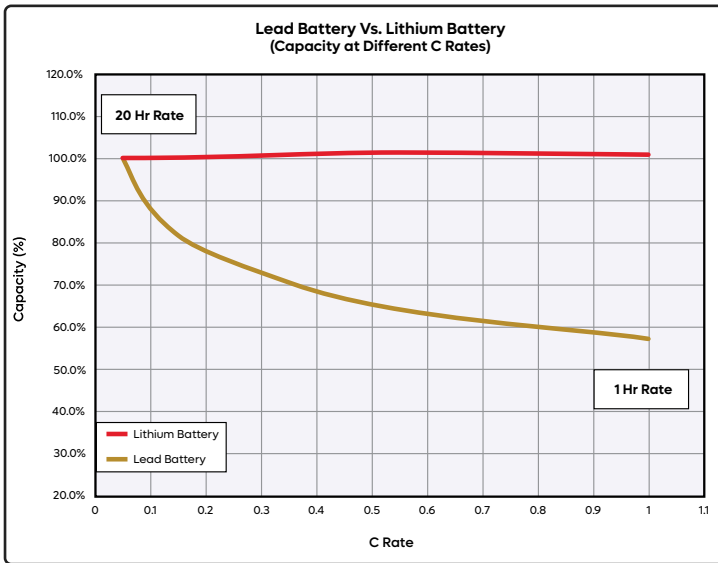
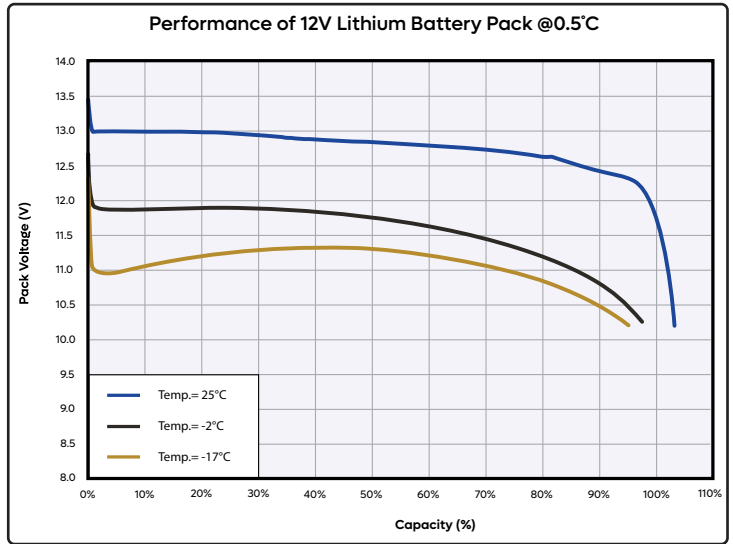
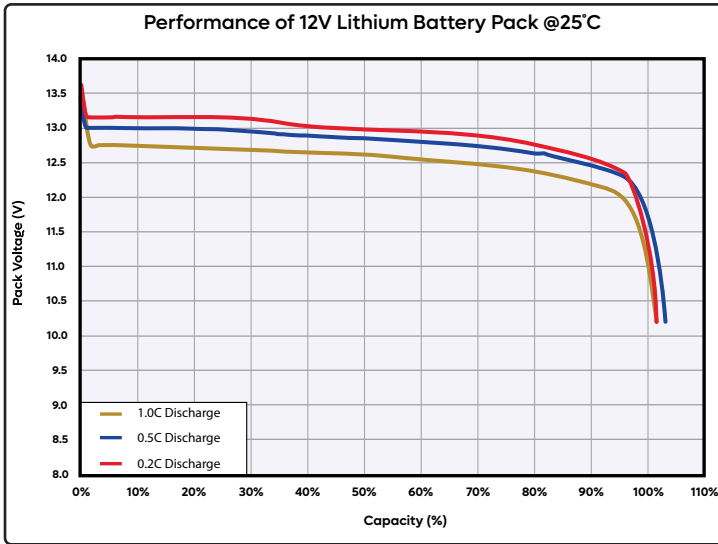
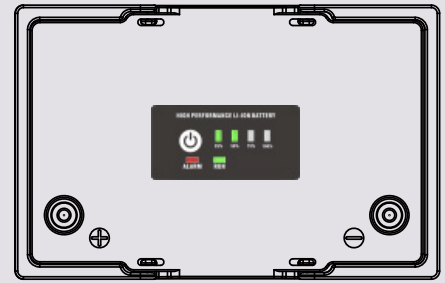
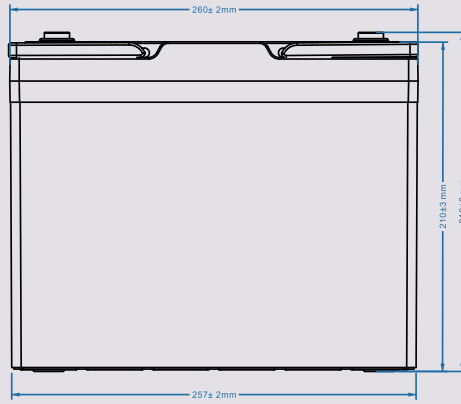
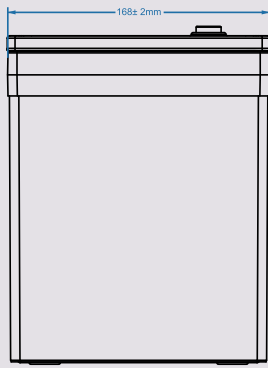
OPERATIONAL SPECIFICATIONS

Discharging	Charging	Storage
-4°F~131°F (-20°C~60°C)	-4°F~122°F (-20°C ~50°C)	50°F~95°F (10°C~35°C)

SAFETY/REGULATORY INFORMATION

Certifications			
Transport	Shipping Classification	Cells	Case
UN/DOT 38.3	UN3480, Class 9	UL1973, UL9540A, IEC62619	UL94 HB

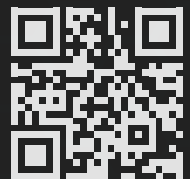




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