

US 12V G24 - 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.
- **Bluetooth and App** 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.
- **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 12V G24 | 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) | |

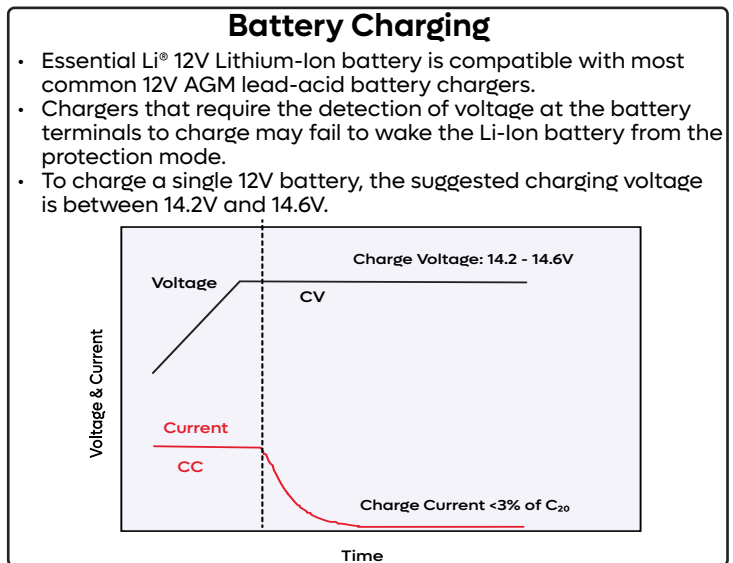
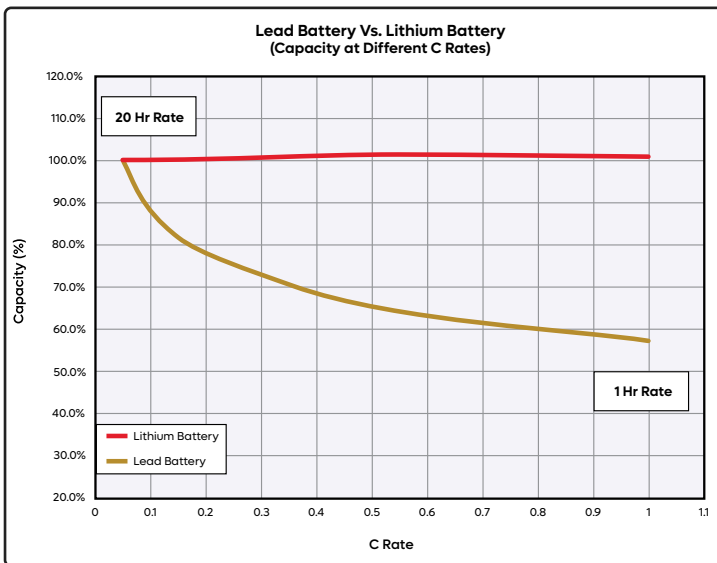
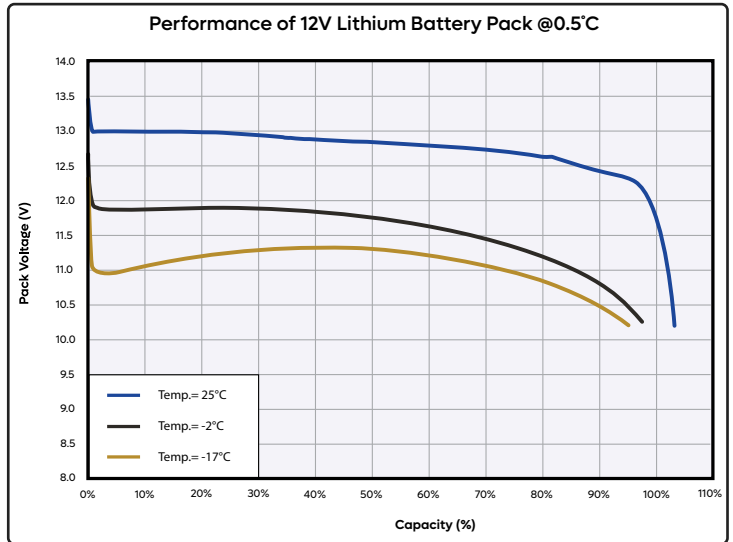
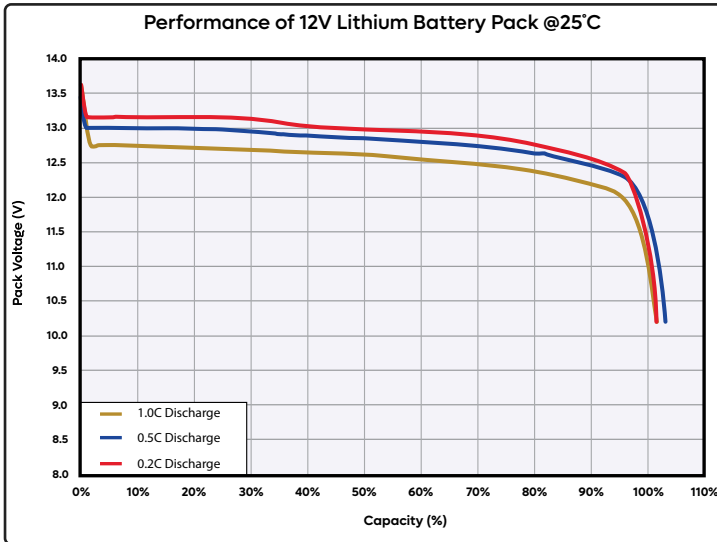
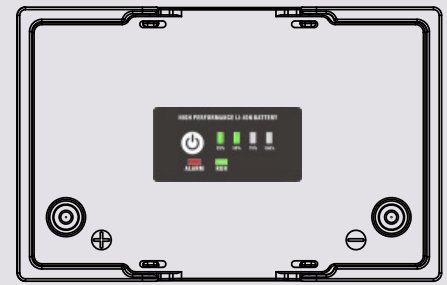
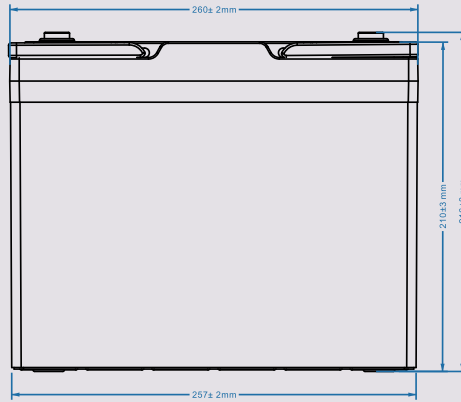
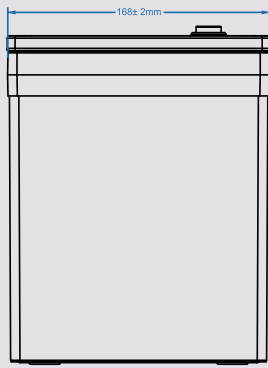
OPERATIONAL SPECIFICATIONS

| Discharging | Charging | Storage |
|-------------------------|-----------------------|-----------------------|
| -4°F~131°F (-20°C~55°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 | UL1973, UL9540A, IEC62619 | TBD |

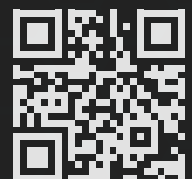




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