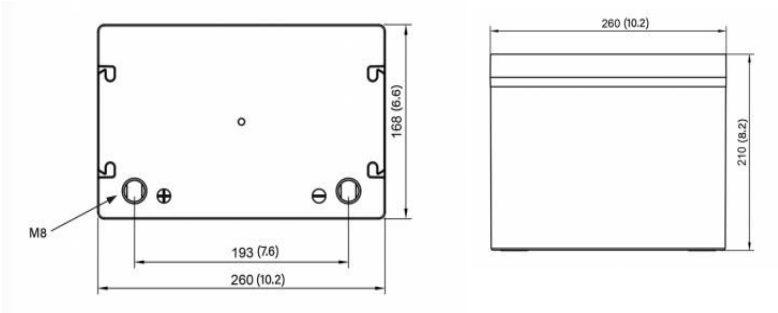
Lithium Iron Phosphate (LiFePO4) Battery
12.8V 70Ah/70A BMS

Features:

- **Longer Cycle Life:** LFP Offers up to 20 times longer cycle life and 5 times longer float/calendar life than a lead acid battery. This helps to minimize replacement cost and reducing the total cost of ownership over time.
- **Lighter Weight:** About 40% of the weight of a comparable lead acid battery. LFP is generally a “drop-in” replacement for lead acid batteries.
- **Higher Power**: Delivers twice the power of a lead acid battery, even at high discharge rates, whilst maintaining high energy capacity.
- **Wider Temperature Range**: -20ºc to +60ºc.
- **Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impacts, overcharging or short circuit.
- **Increased Flexibility:** Modular design enables deployment of up to four batteries in series and max 12 batteries in parallel.
- **Connectivity:** Use the free iOS or Android app to monitor via Bluetooth.
- **Protection:** Advanced built-in BMS provides high protection when in use.

General Description:



Applications:

- Electric vehicles, boats, toys
- Mobility scooters
- Kontiki, trolling motors
- Solar/wind energy storage
- Telecommunications
- Medical equipment
- UPS, Back-up power
- Emergency lighting

General Description:

This high performance 12.8V 70Ah capacity LFP battery is perfect for powering your deep cycle systems. The battery design is strong, safe and easy to use. This is the very latest Lithium technology available and with our unique onboard BMS (Battery Management System) further increase safety and durability.

Batteries can be connected in parallel for increased capacity and connected in series for increased voltage Max 48V, 840Ah (40kWh).

Electrical Specifications:

Nominal Voltage:	12.8V
Nominal Capacity:	70Ah
Nominal Energy:	896Wh
Internal Resistance:	≤30mΩ @ 50% SOC
Capacity:	@ 25A: 240minutes (4hours)
Self-Discharge:	< -5% / per month
Maximum in Series:	4 pcs
Maximum in Parallel:	12 pcs

Mechanical Specifications:

Terminal Type:	2 * M8 Bolts (washers incl.)
Weight:	10.0kg
Case Dimension (L x W x H):	260mm x 168mm x 210mm
Case Type:	Black ABS, IP56 rating
Cell type / Chemistry:	Prismatic-LiFePO4
Bluetooth Smart Module:	iOS/Android free app

BMS Features:

Low voltage, high voltage, over temperature, over-current, short-circuit protection, cell balancing, Bluetooth connectivity

Discharge Current and Voltage:

Max Continuous Discharge Current:	70A
Peak Discharge Current:	200A (10s)
Discharge Pulse Current:	300A ±50A (31ms ±10ms)
BMS Low Voltage Cut-off:	8.8V (2.2V ±0.5V)
BMS Reconnect Voltage:	10.8V (2.7V ±0.05V)
Short-Circuit Protection:	200-800µs Auto-recover or charge release

Charge Current and Voltage:

Max Charge Current	70A
Recommended Charge Current:	5A – 50A
End of Charge Voltage:	14.4V ±0.2V
BMS Over Charge Voltage Cut-Off:	15V (3.75V ±0.05V)
Balancing Voltage:	3.6V ±0.05V per cell
Balancing Current:	116mA ±10mA

Temperature Ranges:

Discharge Temperature:	-20ºc to +60ºc
Charge Temperature:	-20ºc to +45ºc
Storage Temperature:	-20ºc to +45ºc
High Temperature Protection:	+60ºc

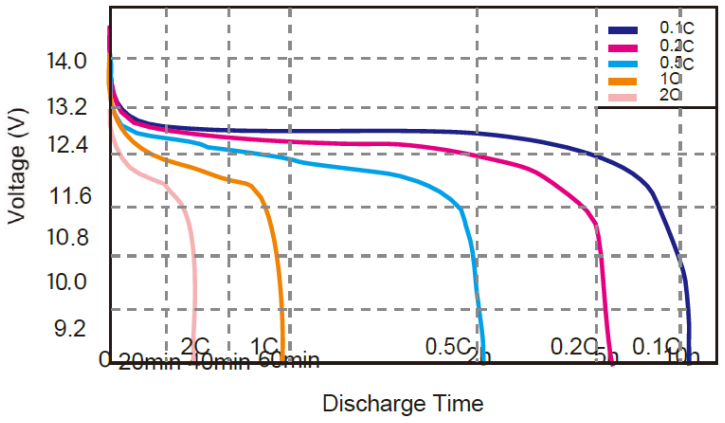
Compliance Specifications

Certifications:	CE for pack UN38.3 for pack UL1642 for cells IEC61233 for cells BIS for cells
Shipping Classifications:	UN3840

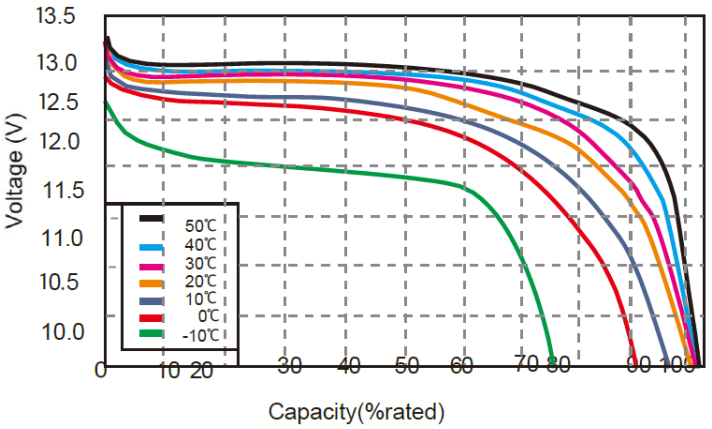
Packaging:

Performance Characteristics:

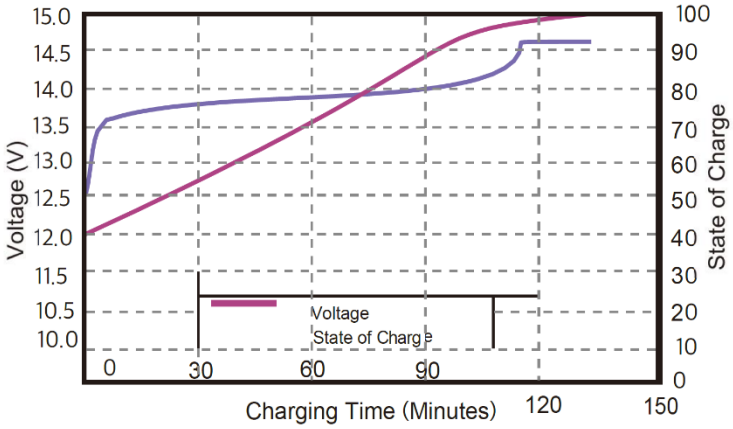
Discharge Rate Curves:



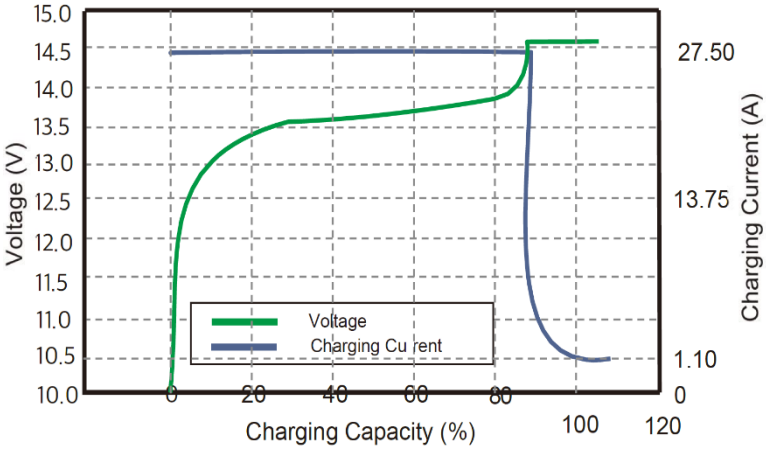
Temperature Discharge Curves:



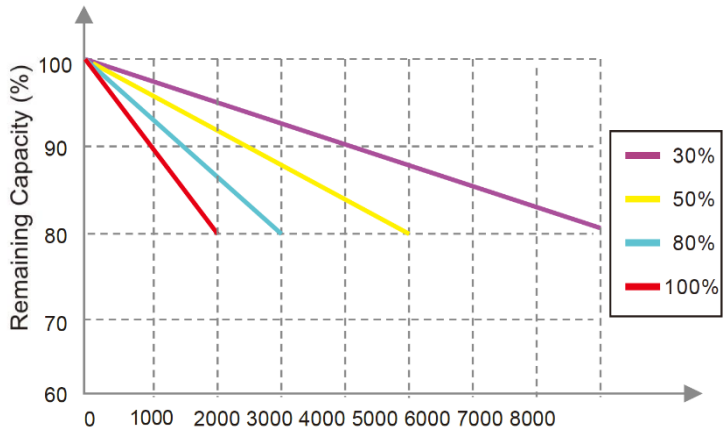
State of Charge Curves:



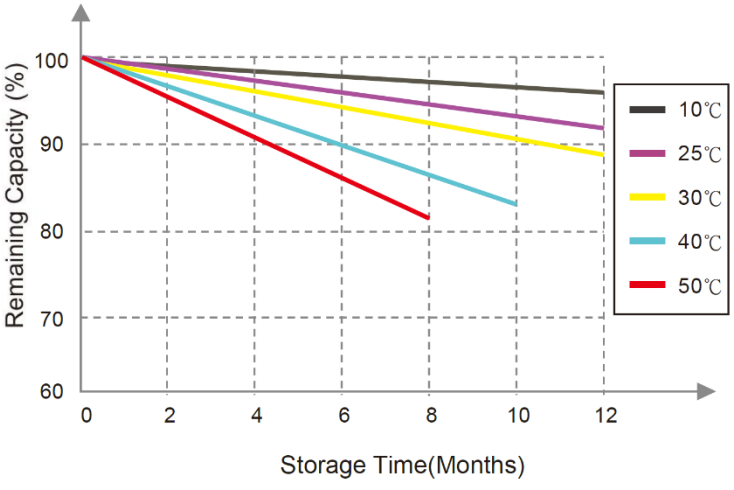
Charging Characteristics:



Cycle Life Curves:

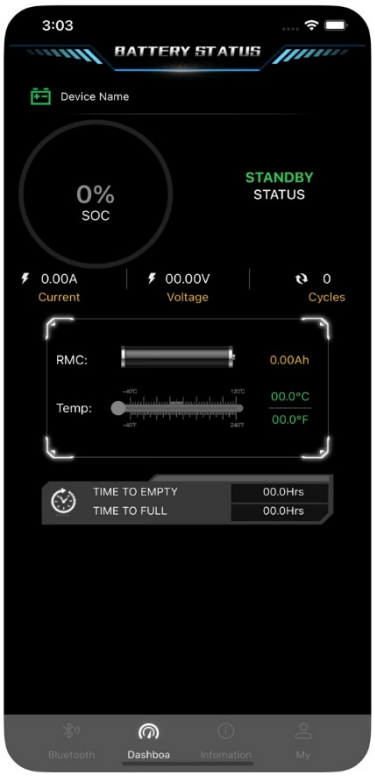


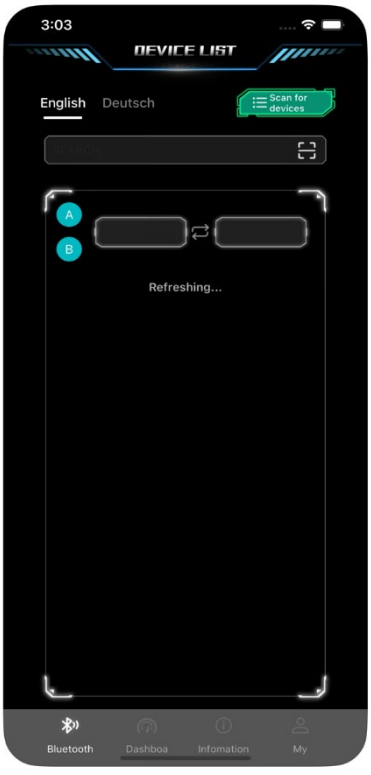
Self-Discharge Curves:

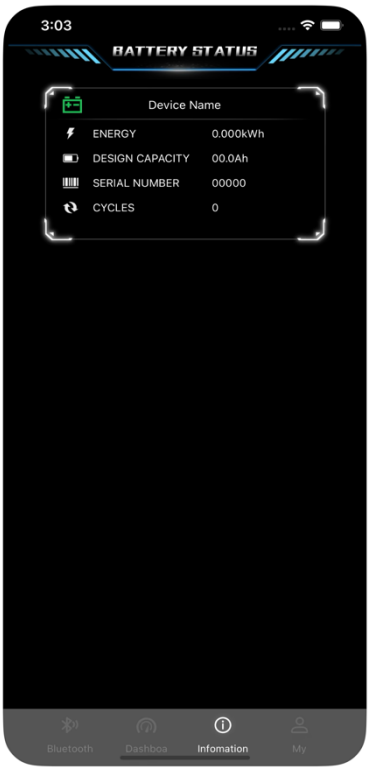


iOS / Android App Specifications:

- Free Download from Google Play or the App Store
- BLE4.0
- State of charge, cycle count, current, voltage, temperature, capacity, average time to full/empty





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