

FEATURES Lithium Iron Phosphate (LiFePO4) Graphane: the Safest Lithium Technology.
Integrated Smart Battery Management System(BMS).
Bluetooth
LED Indicator(Optional)

PERFORMANCE Long Cycle Life>5000cycles @100% DOD.
High Density, High Discharge Current, High Temperature Range.
Low Weight, Free Maintenance.
Fast Charging.
Environment Friendly.



LITH12-100BT(12.8V100Ah)

BATTERY DATA SHEET

Electrical Parameters

Nominal Voltage	12.8V
Rated Capacity	100Ah
Energy	1280Wh
Resistance	≤30m Ω
Efficiency	99%
Cycle Life	>5000cycles @0.2C,100% DOD
Self Discharge	2% per Month
Max. Modules in Series/Parallel	4S1P

Mechanical Parameters

Dimension(L x W x H)	295x 203 x 225 mm 12x 8.0 x 89"
Weight	11.5kg(25.7lbs)
Terminal Type	M8
Battery Housing	ABS(Detachable with screws)
Housing Protection	IP65
Cell Type-Chemistry	LiFePO4 Prismatical Cell
SOC Display(Optional)	Bluetooth 5.0

Discharge Parameters

Continuous Discharge Current	100A
Pulse Discharge Current	300A(1 second)
Recommended Volt. Disconnect	11V
BMS Discharge Cut-off Voltage	9-10V
Reconnect Voltage	10.5V
Short Circuit Protection	yes

Charge Parameters

Charge Method	CC-CV
Charge Voltage	14.4~14.8V
Recommended Float Voltage	13.8V
Recommended Charge Current	10-50A
Maximum Charge Current	100A
BMS Charge Cut-off Voltage	14.6V

Compliance Certificate

Certifications	UL1973
	CE
	IEC62619
	ROHS
	MSDS
Shipping Classification	UN3480, Class 9, UN38.3

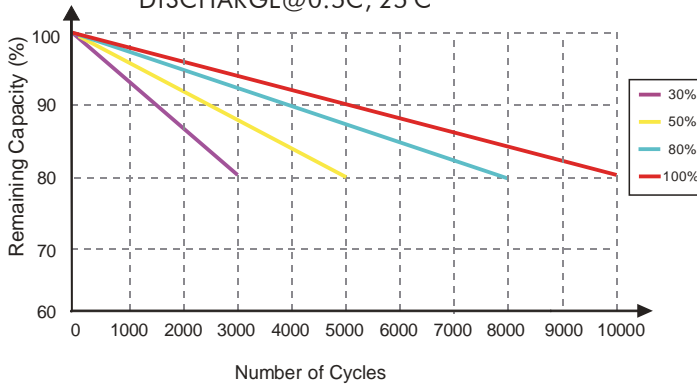
Temperature Parameters

Discharge Temperature	-40 to 65°C (-22 to 151°F)
Charge Temperature	0 to 45°C (32 to 113°F)
Storage Temperature	-40 to 65°C(-40 to 151°F)
BMS High Temperature Cut-off	80°C(176°F)

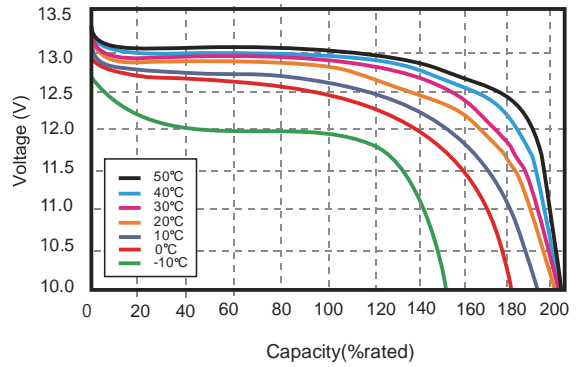


Performance Characteristics

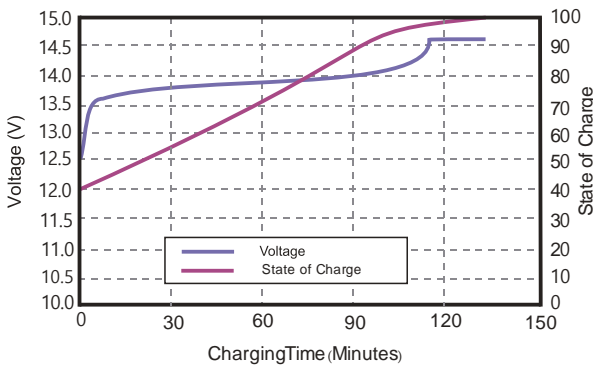
CYCLE LIFE vs. DEPTH OF DISCHARGE(DOD)
DISCHARGE@0.5C, 25°C



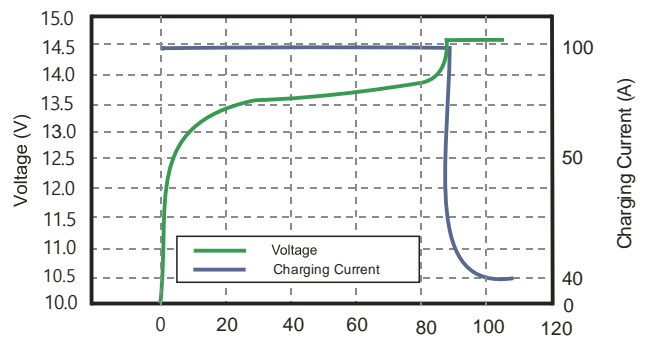
DISCHARGE CAPACITY at VARIOUS TEMPERATURES
DISCHARGE @0.5C



STATE OF CHARGE CURVE @0.5C, 25°C



CHARGING CHARACTERISTICS @0.5C, 25°C



Bluetooth APP



Bluetooth 5.0

Low Energy

Battery Recycle

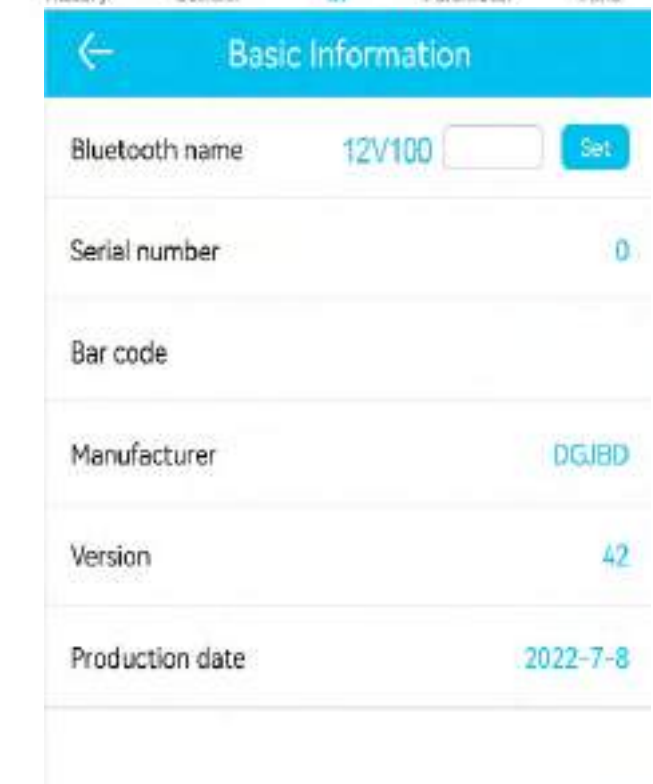
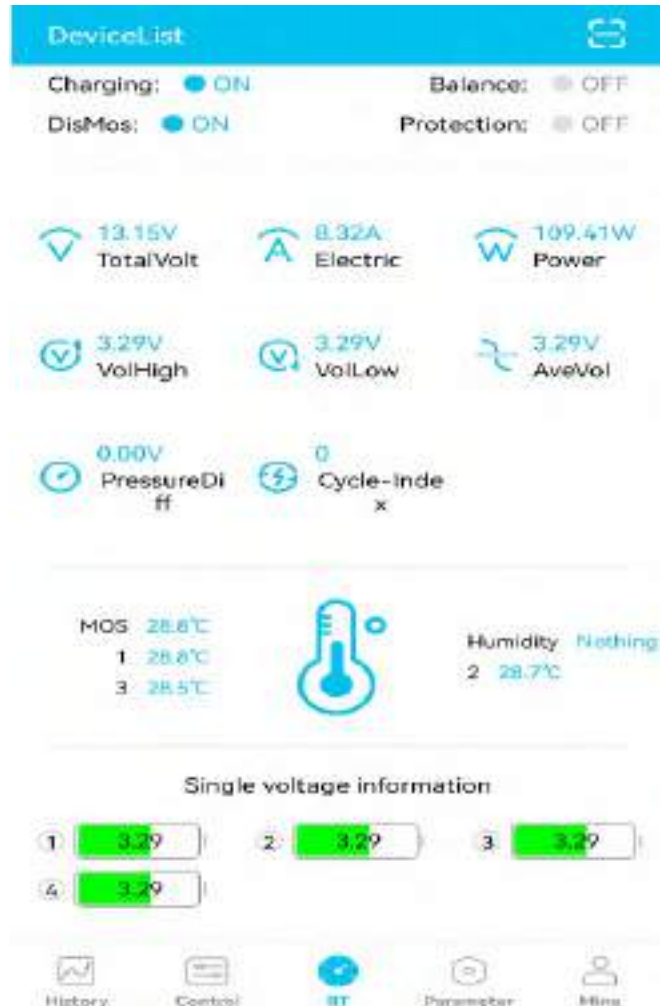


NOTE: Do Not Mix With Sealed Lead Acid Batteries When Recycling.

Battery Applications

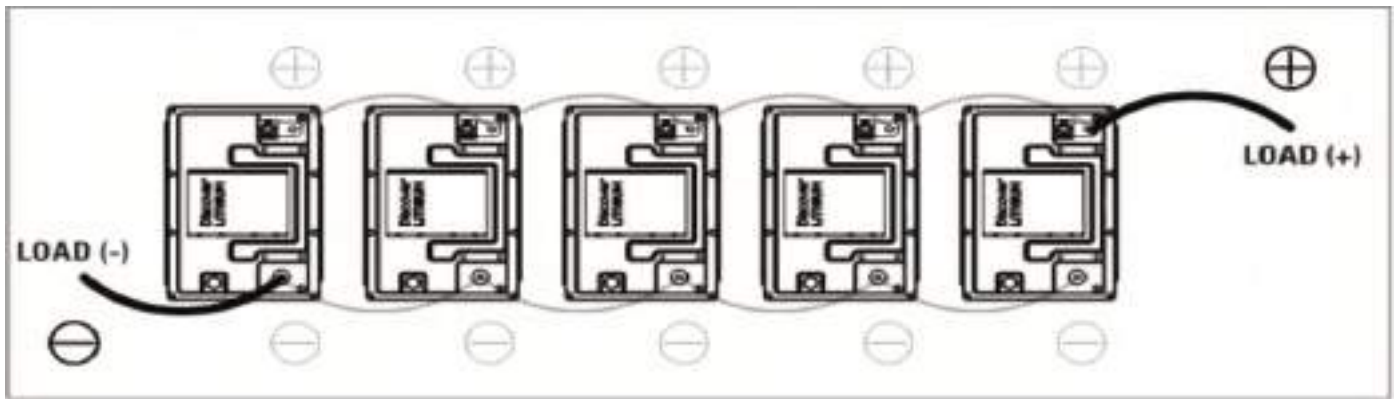
- + Data Center UPS
- + Telecom Backup Power
- + Military Power Supply
- + Solar Energy Storage System
- + Solar Street LED Lightings
- + Autonomously Guided Vehicles (AGVs)
- + Industrial Robotics & Handling Equipment
- + Aerial Work Platform
- + Floor Cleaning Machines
- + Power Tools, Lawn Mower
- + Electric Bike & Motorcycles
- + Electric Mobilities(E-scooters, Wheelchair)
- + Golf Trolley & Golf Carts
- + Medical Devices
- + Electric Ships
- + Passenger Vehicles

Bluetooth App Display



Notice

- 1) Before installing the battery in parallel, ensure that each battery is charged to 100% SOC.
Connect the load positive (+) cable and load negative (-) cable to the opposing ends of the parallel batteries. With equal cable gauge and equal cable length.



- 2) Failure to properly torque battery terminal nuts may increase resistance and lower voltage which may lead to burnout of the terminals
- 3) If the battery SOC is greater than 10% at the end of discharge, it does not require an immediate charge. If the battery has been discharged below 10% SOC it must be charged within 24 hours to avoid permanent damage to the battery.
- 4) To store the battery for a period of up to 6 months, the battery must be initially put into storage at 80% SOC or greater. It must remain disconnected from all loads and power electronics during the storage period.
- 5) A Bluetooth App for mobile devices provides real-time access to the battery state-of-charge, voltage, operating current, temperature, status and a diagnostic report.
The battery box top cover is detachable with screws, if necessary, we can open the top cover to replace the defective BMS with a new one to offer the battery a second life. This task must be performed by a qualified electric engineer.