

LiFePO₄ BATTERY PACK

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

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



LFP12.8-200(12.8V200Ah)

BATTERY DATA SHEET

Electrical Parameters

Nominal Voltage	12.8 V
Rated Capacity	200 Ah
Energy	2560 Wh
Resistance	≤0.4mΩ
Efficiency	99%
Cycle Life	>6000cycles @0.5C, 100% DOD
Self-Discharge	3% per Month

Mechanical Parameters

Dimension (L x W x H)	455 x 225 x 224 mm
	17.91 x 9.13 x 8.66 "
Weight	24 kg (52.9 lbs.)
Terminal Type	M8
Battery Housing	Metal
Housing Protection	IP65
Cell Type-Chemistry	LiFePO ₄ Prismatic Cell

Discharge Parameters

Continuous Discharge Current	200A
Pulse Discharge Current	300A (2 seconds)
Recommended Volt. Disconnect	11V
BMS Discharge Cut-off Voltage	10V
Reconnect Voltage	11V
Short Circuit Protection	200~600 us

Charge Parameters

Charge Method	CC-CV
Charge Voltage	14.4~14.6 V
Recommended Float Voltage	13.8 V
Recommended Charge Current	100A
Maximum Charge Current	200A
BMS Charge Cut-off Voltage	14.6V

Communications

Communications type	RS485 / CAN
Communications Connector	SD13 5 Pin 13mm Waterproof

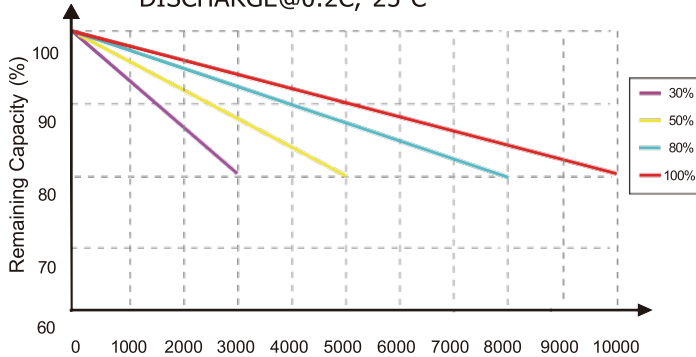
Temperature Parameters

Discharge Temperature	-20 to 65.°C (-4 to 151.F)
Charge Temperature	0 to 45.°C (32 to 113.F)
Storage Temperature	0 to 45.°C (32 to 113. F)
BMS High Temperature Cut-off	80.°C (176. F)



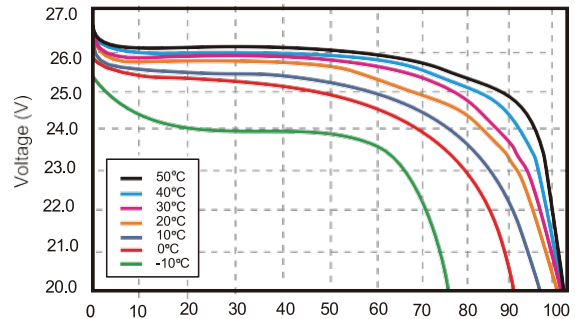
Performance Characteristics

CYCLE LIFE vs. DEPTH OF DISCHARGE(DOD)
DISCHARGE@0.2C, 25 C



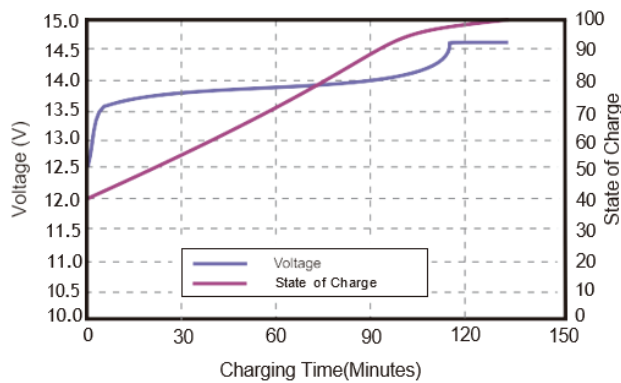
Number of Cycles

DISCHARGE CAPACITY at VARIOUS TEMPERATURES
DISCHARGE @0.2 C

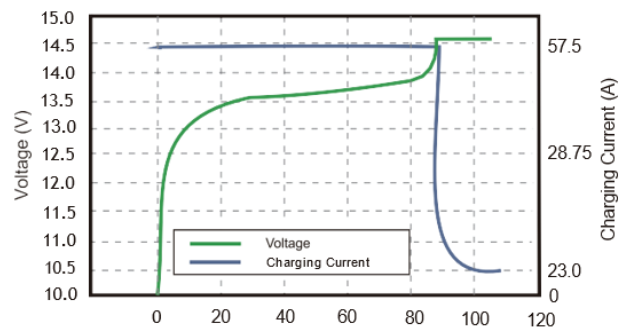


Capacity(%rated)

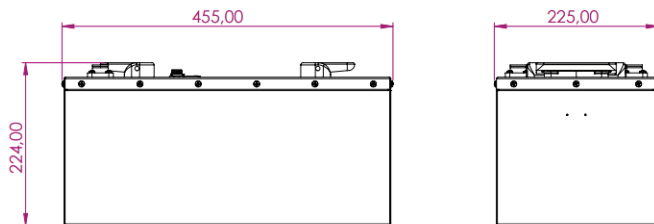
STATE OF CHARGE CURVE @0.2C, 25 C



CHARGING CHARACTERISTICS @0.2C, 25 C



Battery Dimension



Battery Recycle



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

See HDA User's Manual for Proper Operation.

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
- + Electric Bike & Motorcycles
- + Electric Mobilities (E-scooters, Wheelchair)
- + Golf Trolley & Golf Carts
- + Electric Ships
- + Passenger Vehicles