

LITHIUM IRON PHOSPHATE BATTERY

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

PERFORMANCE Long Cycle Life > 2000cycles @ 100% DOD.
High Density, High Discharge Current, High Temperature Range.
Low Weight, Free Maintenance.
Fast Charging.
Environment Friendly.



HA-LFP-12.8-375(12.8V375Ah)

BATTERY DATA SHEET

Electrical Parameters

Nominal Voltage	12.8V
Rated Capacity	375Ah
Energy	4800Wh
Resistance	≤4mΩ
Efficiency	99%
Cycle Life	>2000cycles @ 0.5°C, 100% DOD
Self Discharge	<2% per Month
Cells in Parallel	4S/4P

Mechanical Parameters

Dimension(L x W x H)	375x 330x 266 mm±2mm
	14.8x 13.0x 10.5"
Weight	45.8kg (100.76lbs)
Terminal Type	M8
Battery Housing	ABS plastic Case, UL-94 V0
Housing Protection	IP65
Cell Type-Chemistry	LiFePO ₄ Cylindrical Cell
SOC Display	LED Indicator

Discharge Parameters

Continuous Discharge Current	250A
Max. Discharge Current	1500A(<5seconds)
Pulse Discharge Current	1500A
Recommended Volt. Disconnect	10V
BMS Discharge Cut-off Voltage	10V
Short Circuit Protection	200~600 μs

Charge Parameters

Charge Method	CC-CV
Charge Voltage	14.4~14.8V
Recommended Float Voltage	13.8V
Recommended Charge Current	125A
Maximum Charge Current	125A
BMS Charge Cut-off Voltage	15.6V

Compliance Certificate

Certifications	UL1642
	CE
	IEC62133 & CB
	KC
	BIS
Shipping Classification	UN3480, Class 9, UN38.3

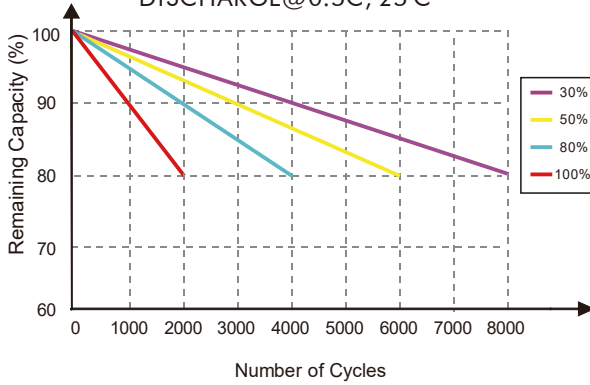
Temperature Parameters

Discharge Temperature	-30 to 60°C (-22 to 140°F)
Charge Temperature	0 to 45°C (32 to 113°F)
Storage Temperature	-40 to 60°C(-40 to 140°F)
BMS High Temperature Cut-off	80°C(176°F)

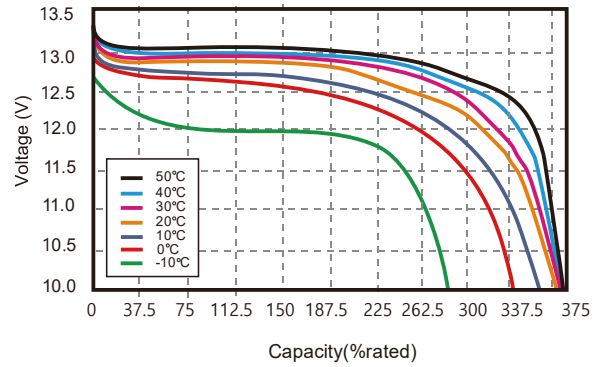


Performance Characteristics

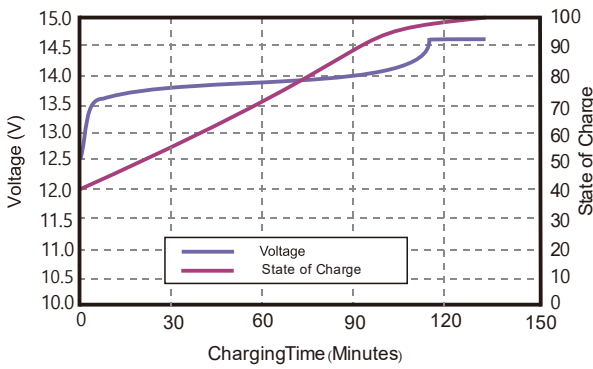
CYCLE LIFE vs. DEPTH OF DISCHARGE(DOD)
DISCHARGE@0.5C, 25°C



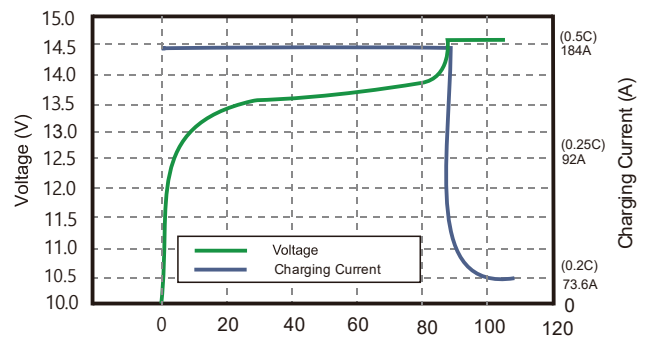
DISCHARGE CAPACITY at VARIOUS TEMPERATURES
DISCHARGE @0.5C



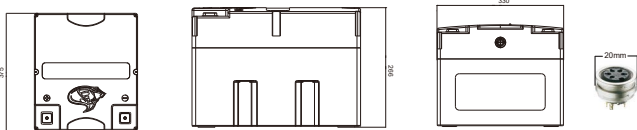
STATE OF CHARGE CURVE @0.5C, 25°C



CHARGING CHARACTERISTICS @0.5C, 25°C



Battery Dimension



Description of LED lights on

- After the protection board is connected to the battery, the LED lamp is steady on when the battery voltage is normal.
- When battery voltage $\geq 12.6V$, the LED is steady green
- 11.0V \leq Battery voltage $< 12.6V$, the LED is steady orange
- 8.8V \leq Battery voltage $< 11.0V$, LED steady red
- Battery voltage $< 8.8V$, LED is still bright red
- When the discharge current exceeds 270A, the LED red light flashing continuously, 3S after the shutdown discharge, recovery condition is to disconnect the load or charge.
- When the charging current exceeds 270A, the LED red light continues to blink, 3S after the shutdown of charging, recovery conditions for disconnected load or charging.
- When the temperature is too high, the LED indicating state does not change, and when the temperature is lifted, it will return to the original state.
- When the battery short circuit (protection plate discharge protection), LED off is not bright.

M8 - 1.0x 8mm
Threaded Hole



Battery Recycle



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

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

See Haidi User's Manual for Proper Operation.

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