



LITHIUM IRON PHOSPHATE BATTERY

FEATURES Lithium Iron Phosphate (LiFePO₄): the Safest Lithium Technology.
Integrated Battery Management System(BMS).
Bluetooth/RS485/RS232/SMBus/CANBus (Optional).
SOC LED/LCD Indicator(Optional).

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



HD25.6-50(25.6V50Ah)

BATTERY DATA SHEET

Electrical Parameters

Nominal Voltage	25.6V
Rated Capacity	50Ah
Energy	1280Wh
Resistance	≤30m Ω
Efficiency	99%
Cycle Life	>2000cycles @1C,100% DOD
Self Discharge	2% per Month
Max. Modules in Series/Parallel	2S/20P

Mechanical Parameters

Dimension(L x W x H)	330 x 173 x 212 mm 13 x 6.8 x 8.3"
Weight	13.6kg(29.92lbs)
Terminal Type	M8
Battery Housing	ABS, UL-94 V-0
Housing Protection	IP56
Cell Type-Chemistry	LiFePO ₄ Cylindrical Cell
SOC Display(Optional)	LED/LCD Indicator

Discharge Parameters

Continuous Discharge Current	50A
Pulse Discharge Current	150A(<3 seconds)
Recommended Volt. Disconnect	20V
BMS Discharge Cut-off Voltage	16V
Reconnect Voltage	18.4V
Short Circuit Protection	200~600 us

Charge Parameters

Charge Method	CC-CV
Charge Voltage	28.8~29.6V
Recommended Float Voltage	27.6V
Recommended Charge Current	25A
Maximum Charge Current	50A
BMS Charge Cut-off Voltage	31.2V

Compliance Certificate

Certifications	UL 1642(cell)
	CE
	IEC62133 & CB
	KC
	BIS
Shipping Classification	UN3480, Class 9, UN38.3

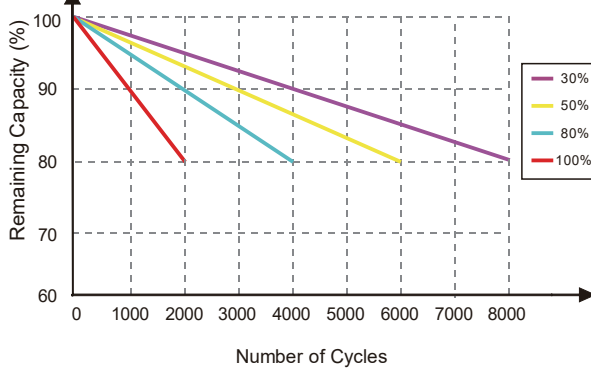
Temperature Parameters

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

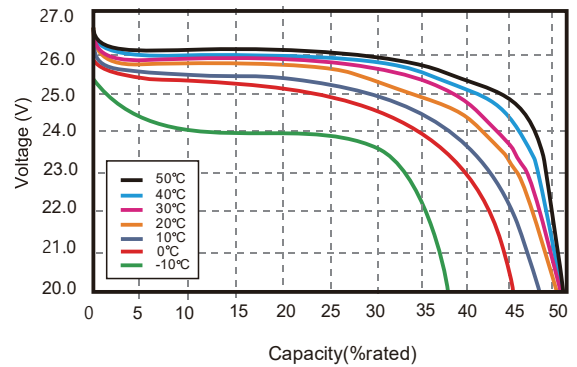


Performance Characteristics

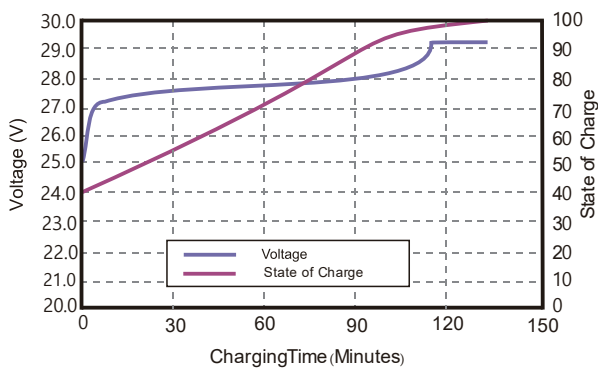
CYCLE LIFE vs.DEPTH OF DISCHARGE(DOD)
DISCHARGE@1C, 25°C



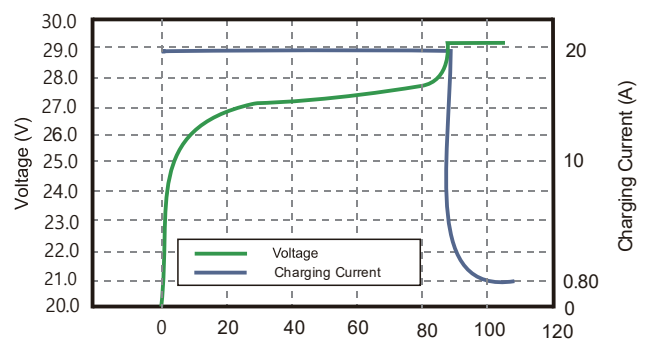
DISCHARGE CAPACITY at VARIOUS TEMPERATURES
DISCHARGE @1C



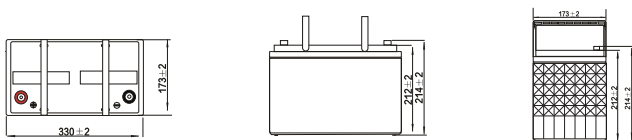
STATE OF CHARGE CURVE @1C, 25°C



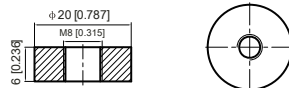
CHARGING CHARACTERISTICS @1C, 25°C



Battery Dimension



M8 - 1.0x 8mm
Threaded Hole



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

Battery Recycle



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

See Haidi User's Manual for Proper Operation.

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