

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.



HD12.8-18(12.8V18Ah)

BATTERY DATA SHEET

Electrical Parameters

Nominal Voltage	12.8V
Rated Capacity	18Ah
Energy	230.4W h
Resistance	≤50m Ω
Efficiency	99%
Cycle Life	>2000cycles @1C,100% DOD
Self Discharge	2% per Month
Max. Modules in Series/Parallel	4S/10P

Mechanical Parameters

Dimension(L x W x H)	181x 77x 167 mm
	7.1 x 3 x 6.6"
Weight	2.6kg(5.73lbs)
Terminal Type	M5
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	18A
Pulse Discharge Current	54A(<3 seconds)
Recommended Volt. Disconnect	10V
BMS Discharge Cut-off Voltage	8V
Reconnect Voltage	9.2V
Short Circuit Protection	200~600 us

Charge Parameters

Charge Method	Charge	CC-CV
Voltage Recommended	Float	14.4~14.8V
Voltage		13.8V
Recommended Charge Current		9A
Maximum Charge Current		18A
BMS Charge Cut-off Voltage		15.6V

Compliance Certificate

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

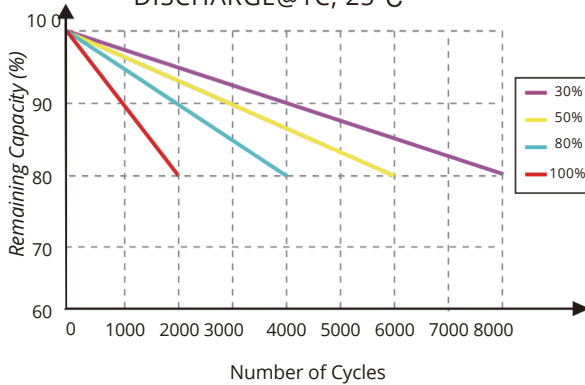
Temperature Parameters

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)

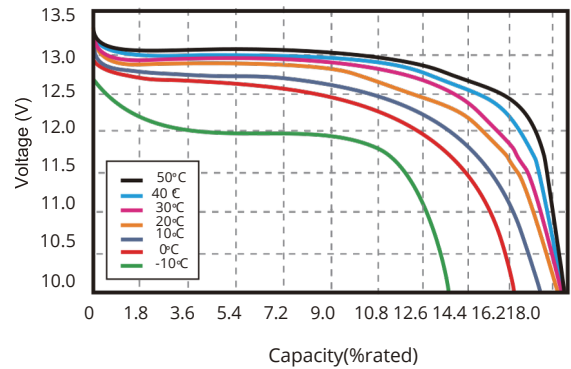


Performance Characteristics

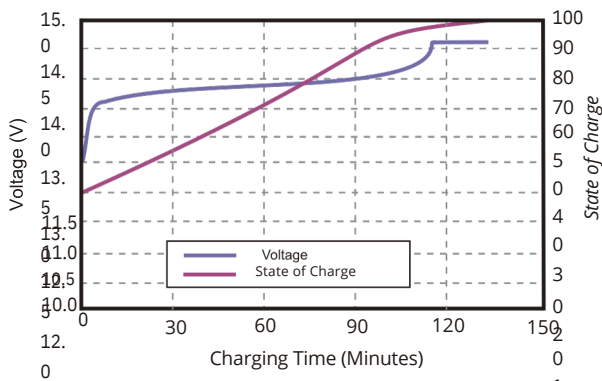
CYCLE LIFE vs.DEPTH OF DISCHARGE(DOD)
DISCHARGE@1C, 25 °C



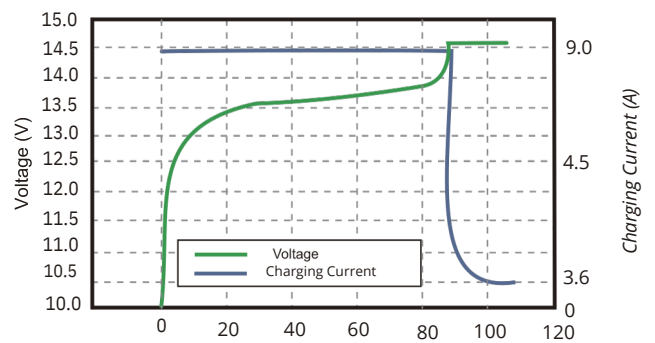
DISCHARGE CAPACITY at VARIOUS TEMPERATURES
DISCHARGE @1C, 25 °C



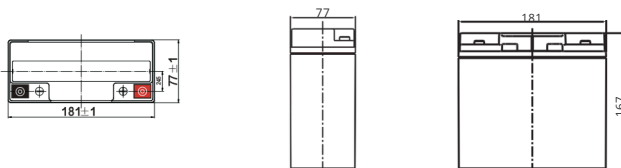
STATE OF CHARGE CURVE @1C, 25 °C



CHARGING CHARACTERISTICS @1C, 25 °C



Battery Dimension



M5 - 1.0x 5mm
Terminal



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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