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.

HD12.8-200(12.8V200Ah)

BATTERY DATA SHEET

Electrical Parameters	
Nominal Voltage	12.8V
Rated Capacity	200Ah
Energy	2560Wh
Resistance	≤15mΩ
Efficiency	99%
Cycle Life	>2000cycles @0.2C,100% DOD
Self Discharge	2% per Month
Max. Modules in Series/Parallel	4S/20P

Mechanical Parameters	
Dimension(L x W x H)	522x 240x 224 mm
	20.6 x 9.4x 8.8"
Weight	29.6kg(65.26lbs)
Terminal Type	M8
Battery Housing	ABS, UL-94 V-0
Housing Protection	IP56
Cell Type-Chemistry	LiFePO4 Cylindrical Cell
SOC Display(Optional)	LED/LCD Indicator

Discharge Parameters	
Continuous Discharge Current	150A
Pulse Discharge Current	450A(5 ms)
Recommended Volt. Disconnect	10V
BMS Discharge Cut-off Voltage	8.8V
Reconnect Voltage	10.8V
Short Circuit Protection	200~600 us

Charge Parameters	
Charge Method	CC-CV
Charge Voltage	14.4~14.8V
Recommended Float Voltage	13.8V
Recommended Charge Current	100A
Maximum Charge Current	150A
BMS Charge Cut-off Voltage	15.6V

Compliance Certificate	
Certifications	UL1642(cell)
	CE
	IEC62133 & CB
	KC
	BIS
Shipping Classification	UN3480, Class 9,UN38.3

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

Cells Conform to UL STD 1642

IS 16046:2015 R-41107107

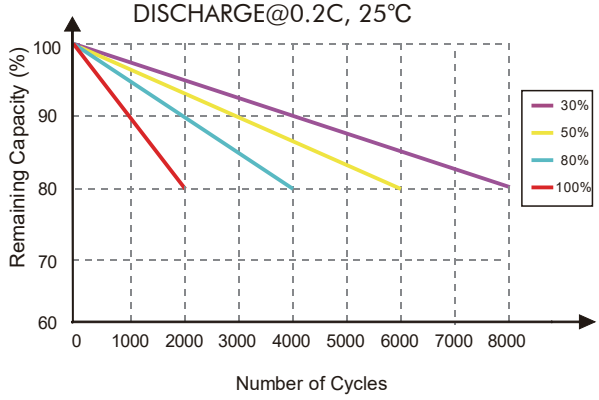
UN 38.3

LITR-ION Energy

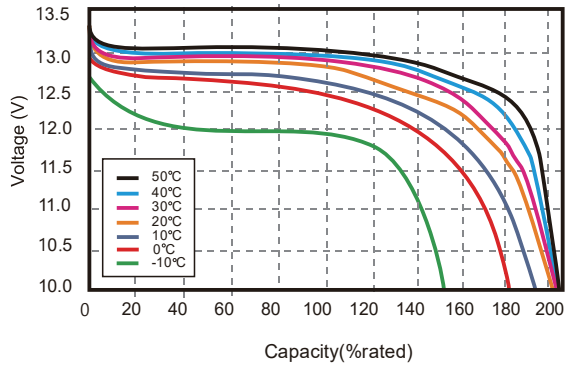
Lulukabaraka S.L.
Roquetes, 16 Nau 36D, Pol. Ind. Can Magre
08187 Santa Eulàlia de Ronçana, Barcelona
info@lulukabaraka.com
Teléfono; +34 931 02 49 53

Performance Charateristics

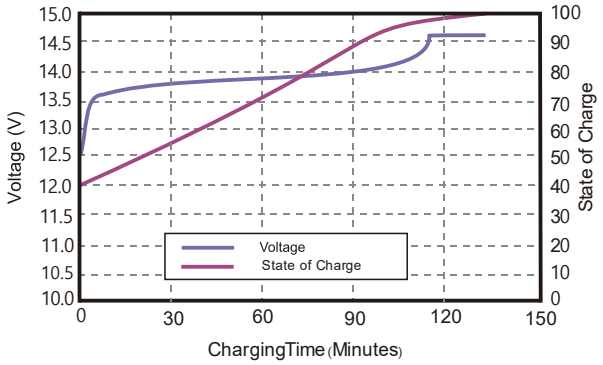
CYCLE LIFE vs.DEPTH OF DISCHARGE(DOD)
DISCHARGE@0.2C, 25℃



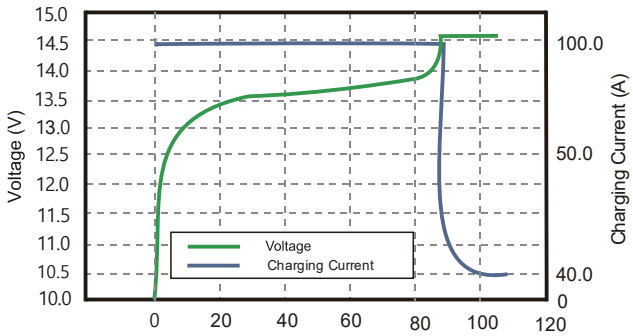
DISCHARGE CAPACITY at VARIOUS TEMPERATURES
DISCHARGE @0.2C, 25℃



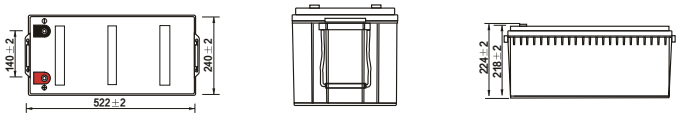
STATE OF CHARGE CURVE @0.2C, 25 C˚



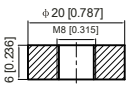
CHARGING CHARACTERISTICS @0.2C, 25 C ˚



Battery Dimension



M8 - 1.0x 8mm
Threaded Hole



Battery Recycle

NOTE: Do Not Mix With Sealed Lead Acid Batteries When Recycling.
See Lulukabaraka User's Manual for Proper Operation.

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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