LITHIUM IRON PHOSPHATE BATTERY

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

MIL48-2,40 (48V50AH, 2400Wh)

BATTERY DATA SHEET

Electrical Parameters	
Nominal Voltage	48V
Rated Capacity	50Ah
Energy	2400Wh
Resistance	≤30m Ω
Efficiency	99%
Cycle Life	>2000cycles @1C,100% DOD
Self Discharge	2% per Month
Max. Modules in Series/Parallel	1S/20P

Mechanical Parameters	
Dimension(L x W x H)	350x300x180mm
	13.77x11.8x7.08"
Weight	54.75kg(120.7lbs)
Terminal Type	M8
Battery Housing	ABS, UL-94 V-0
Housing Protection	IP65
Cell Type-Chemistry	LiFePO4
SOC Display(Optional)	LED/LCD Indicator

Discharge Parameters	
Continuous Discharge Current	50A
Pulse Discharge Current	100A(>3 seconds)
Recommended Volt. Disconnect	40V
BMS Discharge Cut-off Voltage	32V
Reconnect Voltage	36.8V
Short Circuit Protection	200~600 us

Charge Parameters	
Charge Method	CC-CV
Charge Voltage	57.6~59.2V
Recommended Float Voltage	55.2V
Recommended Charge Current	25A
Maximum Charge Current	50A
BMS Charge Cut-off Voltage	62.4V

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

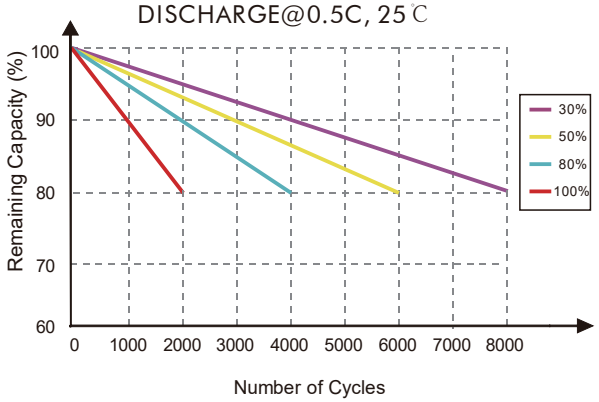
Temperature Parameters	
Discharge Temperature	-30 to 60℃ (-22 to 140℉)
Charge Temperature	0 to 45℃ (32 to 113℉)
Storage Temperature	-40 to 60℃(-40 to 140℉)
BMS High Temperature Cut-off	80℃(176℉)

Cells Conform to UL STD 1642

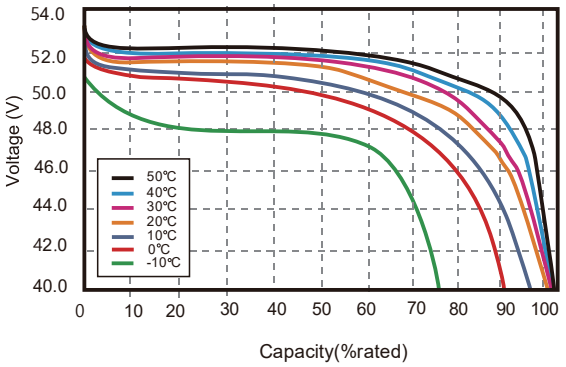
UN 38.3

Performance Charateristics

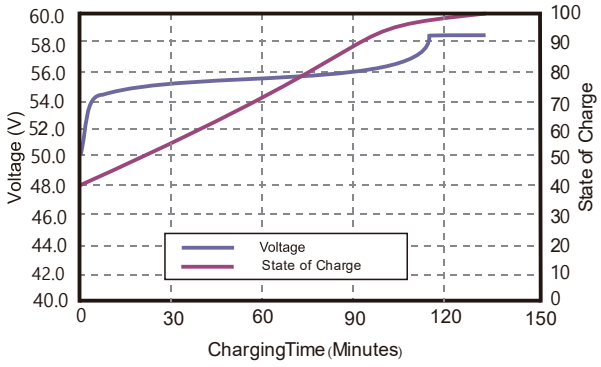
CYCLE LIFE vs.DEPTH OF DISCHARGE(DOD)
DISCHARGE@0.5C, 25℃



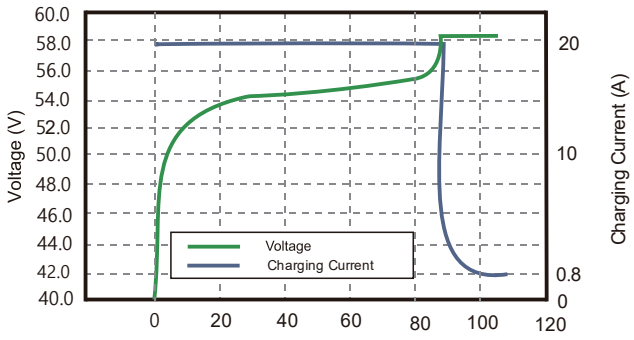
DISCHARGE CAPACITY at VARIOUS TEMPERATURES
DISCHARGE @0.5C, 25℃



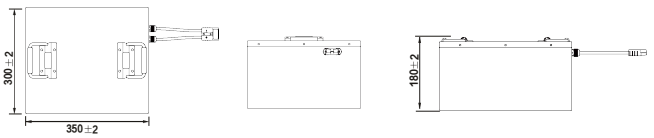
STATE OF CHARGE CURVE @0.5C, 25℃



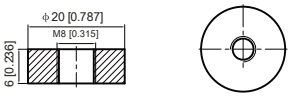
CHARGING CHARACTERISTICS @0.5C, 25℃



Battery Dimension



M8 - 1.0x 8mm
Threaded Hole



Battery Recycle

NOTE: Do Not Mix With Sealed Lead Acid Batteries When Recycling.
See 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
+ Power Tools, Lawn Mower
+ Electric Bike & Motorcycles
+ Electric Mobilities(E-scooters,Wheelchair)
+ Golf Trolley & Golf Carts
+ Medical Devices
+ Electric Ships
+ Passenger Vehicles