



LITHIUM IRON PHOSPHATE BATTERY

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

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



LFP51.2-100(51.2V100Ah)

BATTERY DATA SHEET

Electrical Parameters

Nominal Voltage	51.2V
Rated Capacity	100Ah
Energy	5120Wh
Resistance	≤30m Ω
Efficiency	99%
Cycle Life	>2000cycles @1C,100% DOD
Self Discharge	2% per Month

Mechanical Parameters

Dimension(L x W x H)	400 x 300 x 240 mm 15.75 x 11.81 x 9.45"
Weight	43kg(94.6lbs)
Terminal Type	M8
Battery Housing	Metal
Housing Protection	IP56
SOC Display(Optional)	LCD Indicator

Discharge Parameters

Continuous Discharge Current	200A
Pulse Discharge Current	300A(<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	50A
Maximum Charge Current	100A
BMS Charge Cut-off Voltage	62.4V

Compliance Certificate

Certifications	CE
	UL1973
	IEC62619 & CB
	KC
	BIS
Shipping Classification	UN3480, Class 9, UN38.3

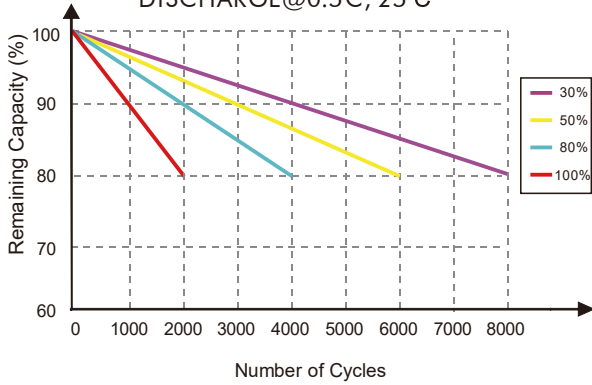
Temperature Parameters

Discharge Temperature	-20 to 60°C (-4 to 140°F)
Charge Temperature	0 to 45°C (32 to 113°F)
Storage Temperature	0 to 60°C (32 to 140°F)
BMS High Temperature Cut-off	80°C(176°F)

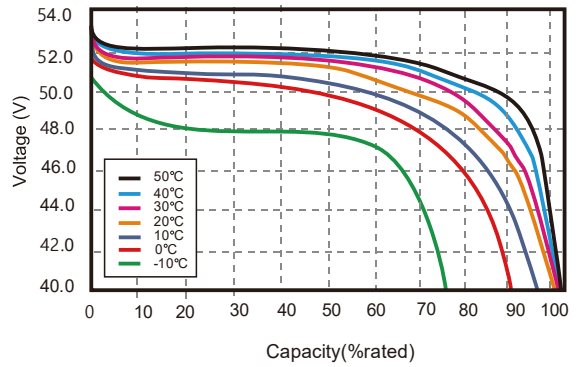


Performance Characteristics

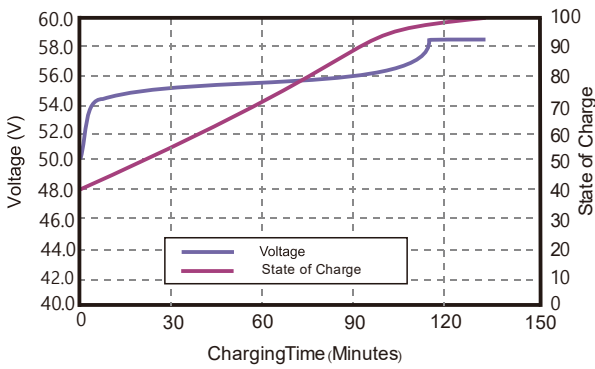
CYCLE LIFE vs. DEPTH OF DISCHARGE(DOD)
DISCHARGE@0.5C, 25°C



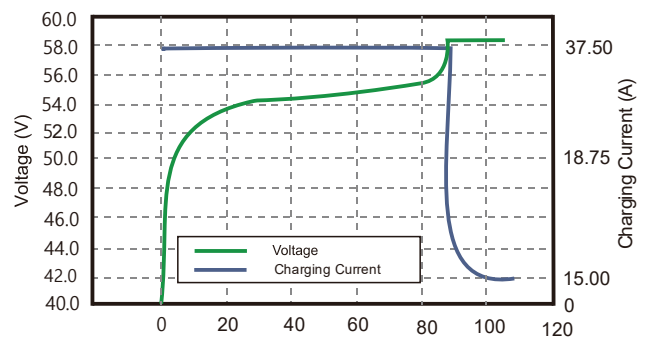
DISCHARGE CAPACITY at VARIOUS TEMPERATURES
DISCHARGE @0.5C, 25°C



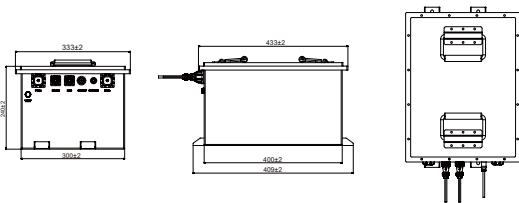
STATE OF CHARGE CURVE @0.5C, 25°C



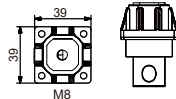
CHARGING CHARACTERISTICS @0.5C, 25°C



Battery Dimension



M8 - 1.0x 8mm
Threaded Hole



Battery Applications

- + Aerial Work Platform
- + Floor Cleaning Machines
- + Electric Mobilities (E-scooters, Wheelchair)
- + Golf Carts
- + Medical Devices
- + Passenger Vehicles



Battery Recycle



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

See E Group User's Manual for Proper Operation.

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