



# LITHIUM BATTERY PACK

## EL-12.8V 100Ah



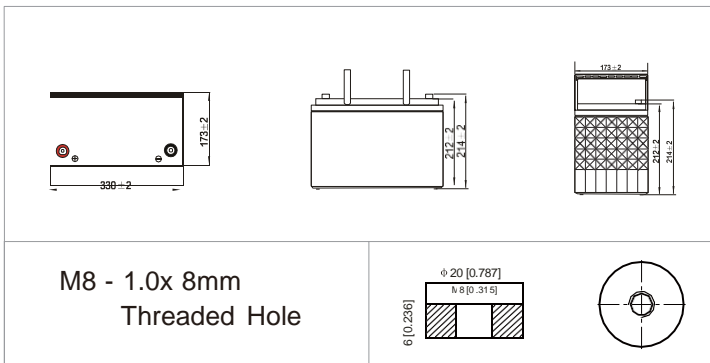
### FEATURES

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 > 6000cycles @ 80% DOD.  
 High Density, High Discharge Current, High Temperature Range.  
 Low Weight, Free Maintenance.  
 Fast Charging.  
 Environment Friendly.

### CHARACTERISTICS



Item	Specifications
Nominal Voltage	12.8V
Rated Capacity	100Ah
Energy	1280Wh
Resistance	≤30m Ω
Efficiency	99%
Cycle Life	>6000cycles @ 80% DOD
Self Discharge	2% per Month
Max. Modules in Series/Parallel	4S/20P

Dimension(L x W x H)	330 x 173 x 212 mm
	13 x 6.8 x 8.3"
Weight	11kg(24.2lbs)
Terminal Type	M8
Battery Housing	ABS, UL-94 V-0
Housing Protection	IP56
Cell Type-Chemistry	LiFePO4 Battery Cell
SoC Display	LED/LCD Indicator

Charge Method	CC-CV
Charge Voltage	14.4~14.8V
Recommended Float Voltage	13.8V
Recommended Charge Current	50A
Maximum Charge Current	100A
BMS Charge Cut-off Voltage	15.6V

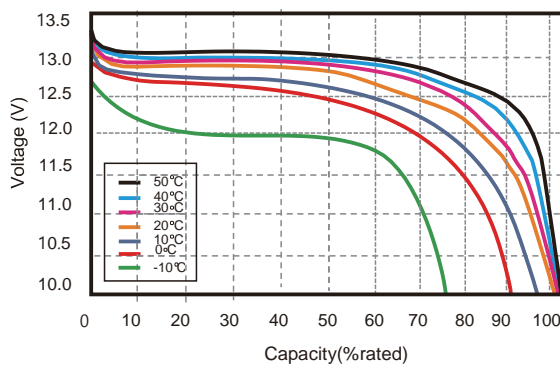
Discharge Temperature	-20 to 60 °C (-4 to 140 °F)
Charge Temperature	0 to 45 °C (32 to 113 °F)
Storage Temperature	0 to 60 °C (32 to 140 °F)
BMS High Temperature Cut-off	80 °C (176 °F)

Continuous Discharge Current	100A
Pulse Discharge Current	300A(<3 seconds)
Recommended Volt. Disconnect	10V
BMS Discharge Cut-off Voltage	8V
Reconnect Voltage	9.2V
Short Circuit Protection	200~600 us

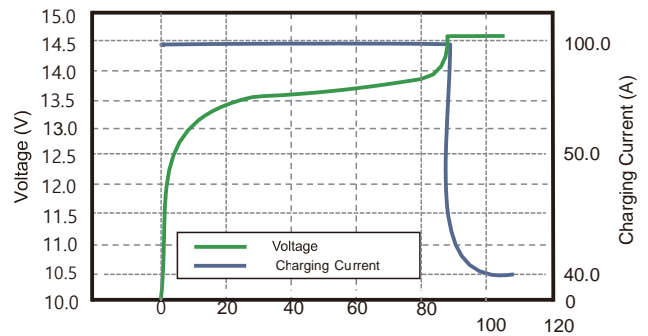
## CHARACTERISTICS

- + 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

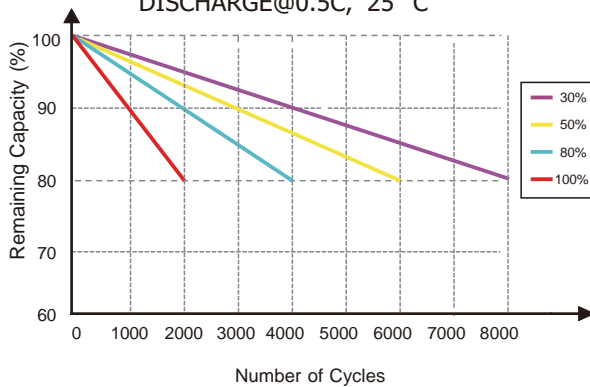
DISCHARGE CAPACITY at VARIOUS TEMPERATURES  
DISCHARGE @0.5C, 25 °C



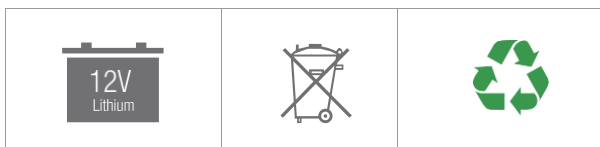
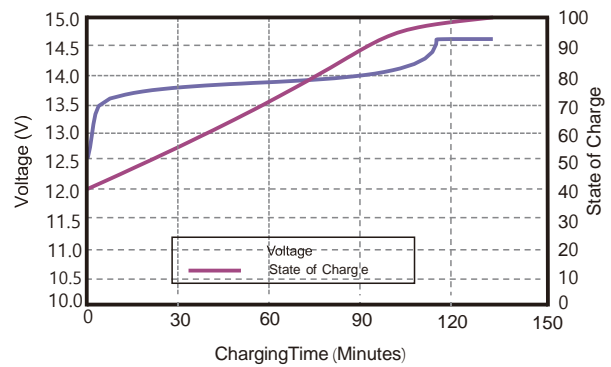
CHARGING CHARACTERISTICS @0.5C, 25 °C



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



STATE OF CHARGE CURVE @0.5C, 25 °C



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