



# LITHIUM IRON PHOSPHATE BATTERY

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

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



MIL24-1,54(25.6V60AH, 1536Wh)

## BATTERY DATA SHEET

### Electrical Parameters

Nominal Voltage	25.6V
Rated Capacity	60Ah
Energy	1536 Wh
Resistance	≤40m Ω
Efficiency	99%
Cycle Life	>2000cycles @1C,100% DOD
Self Discharge	2% per Month

### Mechanical Parameters

Dimension(L x W x H)	260x 180x 276mm
	10.24x7.09x10.87
Weight	14kg ( 30.86lbs)
Terminal Type	M8
Battery Housing	Metal, UL-94 V-0
Housing Protection	IP65
Cell Type-Chemistry	LiFePO4

### Discharge Parameters

Continuous Discharge Current	60A
Pulse Discharge Current	180A(>3 seconds)
Recommended Volt. Disconnect	20V
BMS Discharge Cut-off Voltage	16V
Reconnect Voltage	18.4V
Short Circuit Protection	200~600 us

### Charge Parameters

Charge Method	CC-CV
Charge Voltage	28.8~29.6V
Recommended Float Voltage	27.6V
Recommended Charge Current	30A
Maximum Charge Current	60A
BMS Charge Cut-off Voltage	31.2V

### Compliance Certificate

Certifications	UL 2054
	CE
	IEC62133 & CB
	KC
	BIS
Shipping Classification	UN3480, Class 9, UN38.3

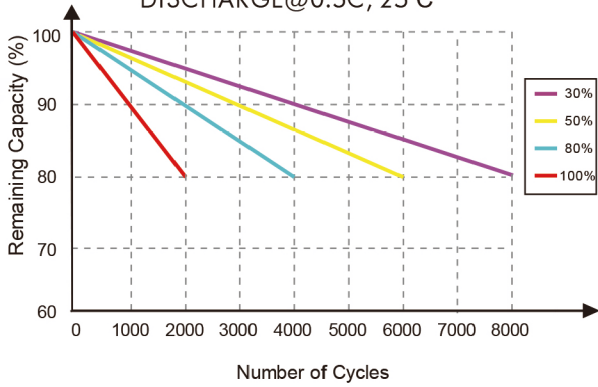
### Temperature Parameters

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)

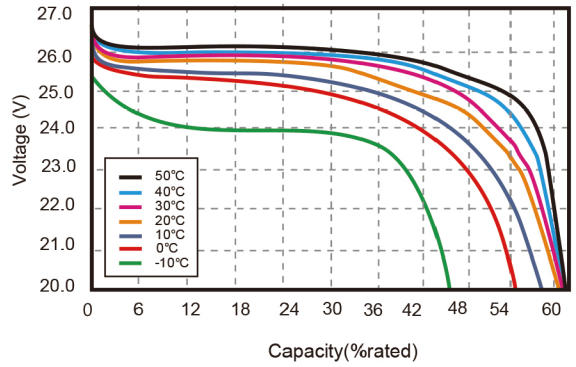


## Performance Characteristics

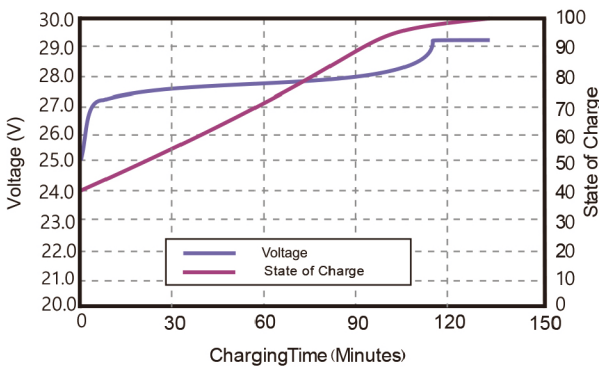
CYCLE LIFE vs. DEPTH OF DISCHARGE (DOD)  
DISCHARGE @ 0.5C, 25°C



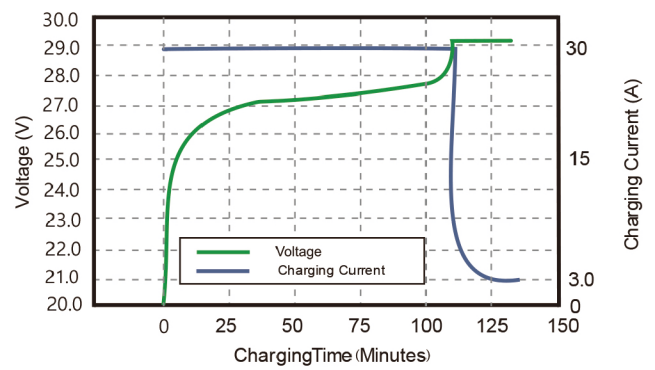
DISCHARGE CAPACITY at VARIOUS TEMPERATURES  
DISCHARGE @ 0.5C, 25°C



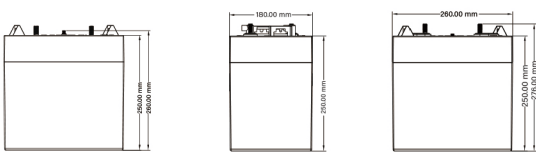
STATE OF CHARGE CURVE @ 0.5C, 25°C



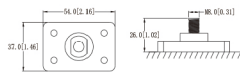
CHARGING CHARACTERISTICS @ 0.5C, 25°C



### Battery Dimension



M8 - 1.0x 10mm  
Terminal



### Battery Applications

- + Military Power Supply
- + Industrial Robotics & Handling Equipment
- + Aerial Work Platform
- + Floor Cleaning Machines
- + Power Tools, Lawn Mower
- + Motorcycle battery

### Battery Recycle

