

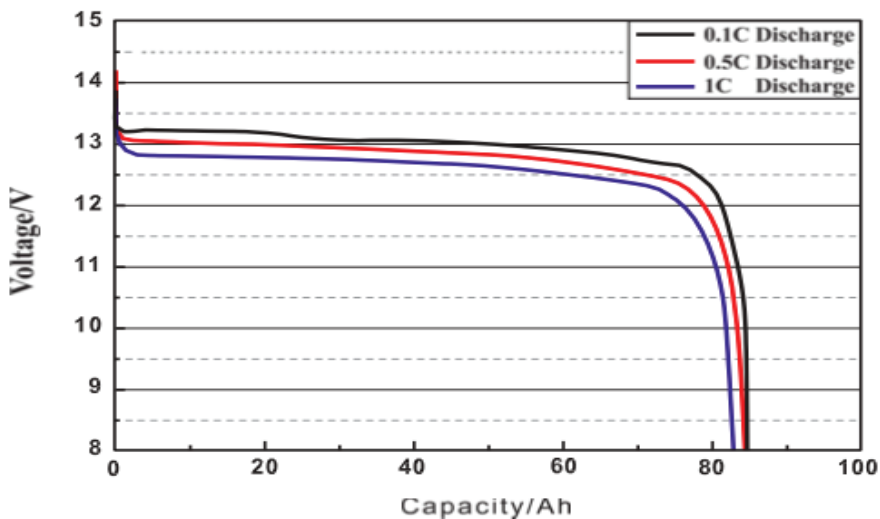


## CYCLE LIFE

### CAPACITY AT DIFFERENT CYCLES AT 100% DOD

100 cycles	99.7
500 cycles	96.3
1000 cycles	90.8
1500 cycles	85.4
2000 cycles	80.1

## 12V 20AH LITHIUM ION BATTERY



Amp Hours: 20AH

Voltage: 12.8V Nominal

Peak Amps: 200

Life Expectancy: 3000-5000 Cycles

Weight (Battery Only): 6lbs. / 2.72kg

Efficiency: 99%

Minutes at 20A: 60

Memory: None

Max Continuous Charge: 1C = 20A

Max Continuous Discharge: 0.5C = 10A

Operating Temperature: -4 + 158 F / -20 + 70 C

Auto Low Voltage Cutoff: 8V - 10V

Auto Over Voltage Cutoff: 15.8V

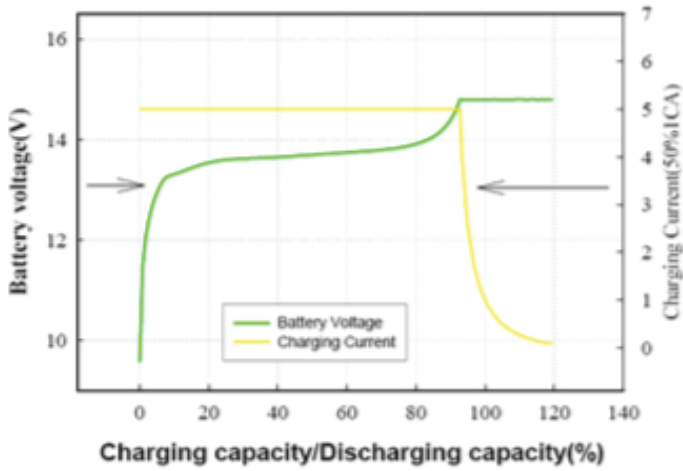
Charge Voltage: CC/CV 14.6V / Float 13.8V

Max Series Connection: 4

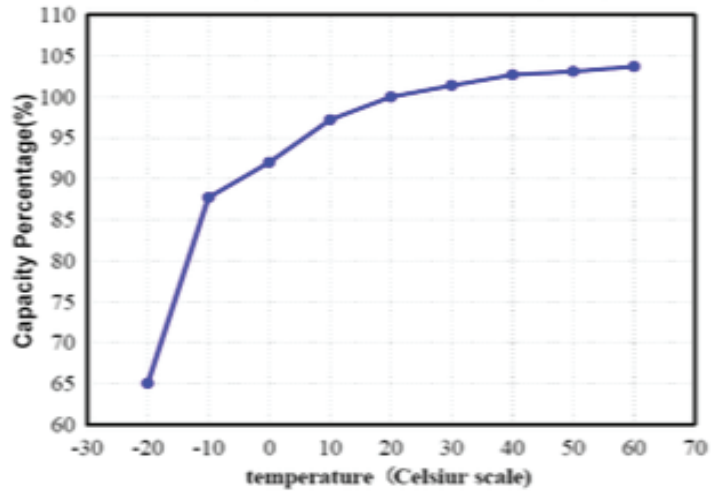
Max Parallel Connection: 4

Cell Type: Cylindrical LiFePO4

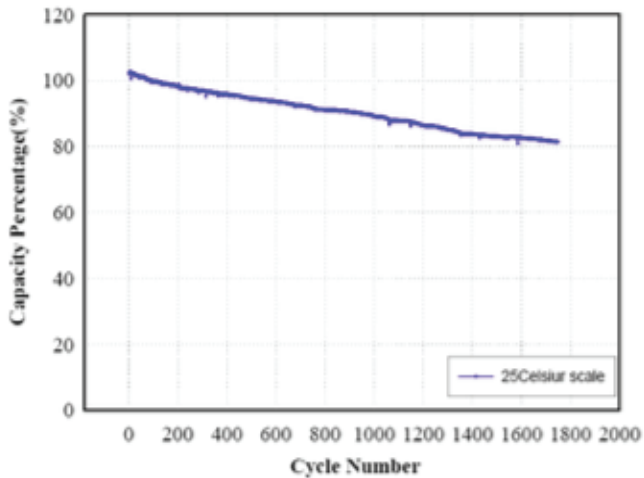
constant voltage charging characteristic  
(0.5CA, 25Celsius scale)



Temperature effects on capacity



Charging capacity/Discharging capacity (%)  
Cycle service life(100%Depth of discharge)





6.54 in.  
166 mm

6.73 in.  
171 mm

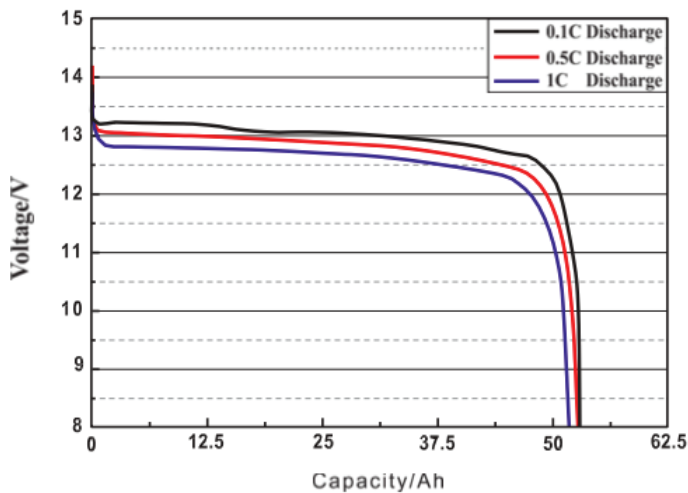
7.83 in.  
199 mm

## CYCLE LIFE

CAPACITY AT DIFFERENT CYCLES AT 100% DOD

110 cycles	99.7
500 cycles	96.3
1000 cycles	90.8
1500 cycles	85.4
2000 cycles	80.1

## 12V 50AH LITHIUM ION BATTERY



Amp Hours: 50AH

Voltage: 12.8V Nominal

Peak Amps: 500

Life Expectancy: 3000-5000 Cycles

Weight: 15lbs. / 6.80kg

Efficiency: 99%

Minutes at 50A: 60

Max Continuous Charge: 1C=50A

Max Continuous Discharge: 1C=50A

Operating Temperature: -4 + 158 F / -20 + 70 C

Auto Low Voltage Cutoff: 8V

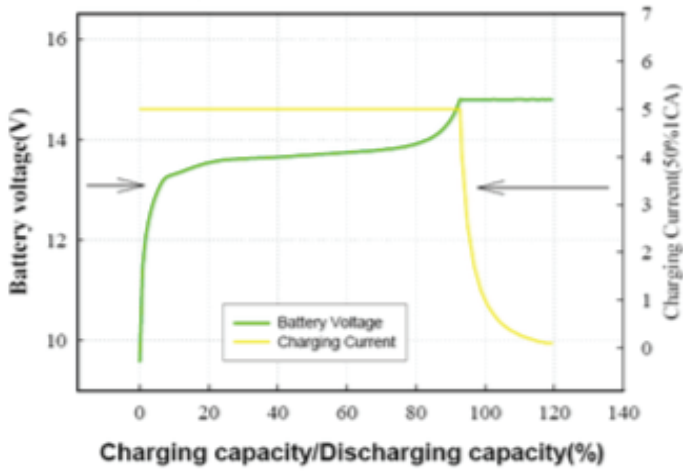
Auto Over Voltage Cutoff: 15.8V

Max Series Connection: 4

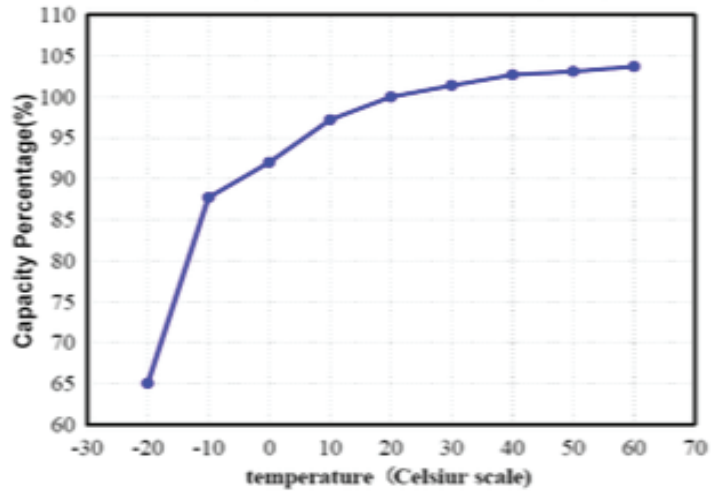
Max Parallel Connection: 4

Cell Type: Cylindrical LiFePO4

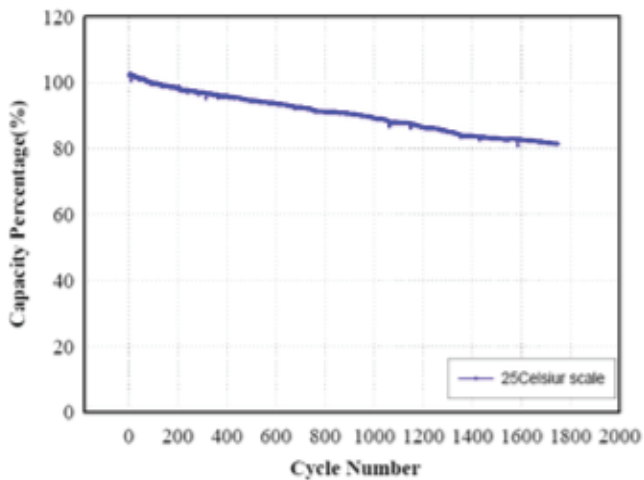
constant voltage charging characteristic  
(0.5CA, 25Celsius scale)



Temperature effects on capacity



Charging capacity/Discharging capacity (%)  
Cycle service life(100%Depth of discharge)





6.75 in.  
170.18 mm

12.75 in.  
323.8 mm

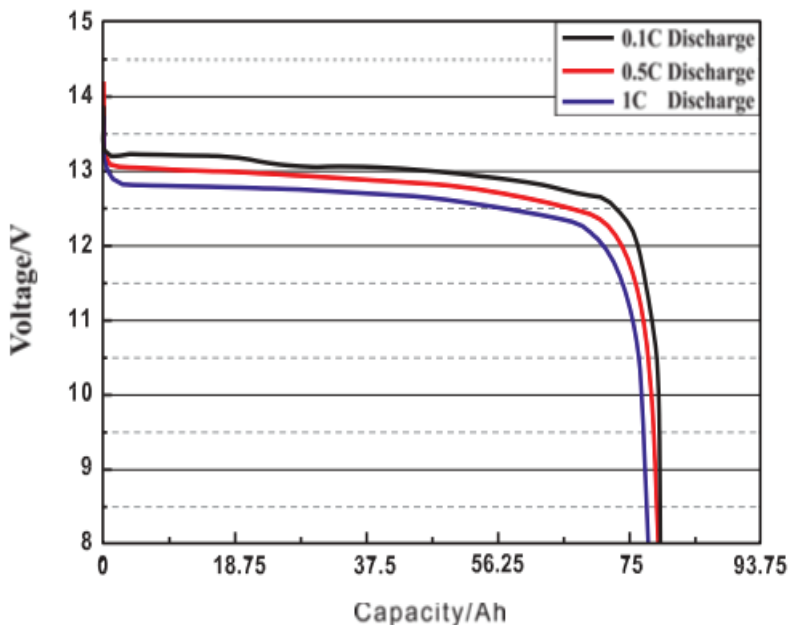
9.8 in.  
248.9 mm

## CYCLE LIFE

CAPACITY AT DIFFERENT CYCLES AT 100% DOD

100 cycles	99.7
500 cycles	96.3
1000 cycles	90.8
1500 cycles	85.4
2000 cycles	80.1

## 12V 75AH LITHIUM ION BATTERY



Amp Hours: 75AH

Voltage: 12.8V Nominal

Peak Amps: 750

Life Expectancy: 3000-5000 Cycles

Weight (Battery Only): 26lbs. / 11.34kg

Efficiency: 99%

Minutes at 20A: 225

Max Continuous Charge: 1C = 75A

Max Continuous Discharge: 1C = 75A

Operating Temperature: -4 + 158 F / -20 + 70 C

Auto Low Voltage Cutoff: 8V - 10V

Auto Over Voltage Cutoff: 15.8V

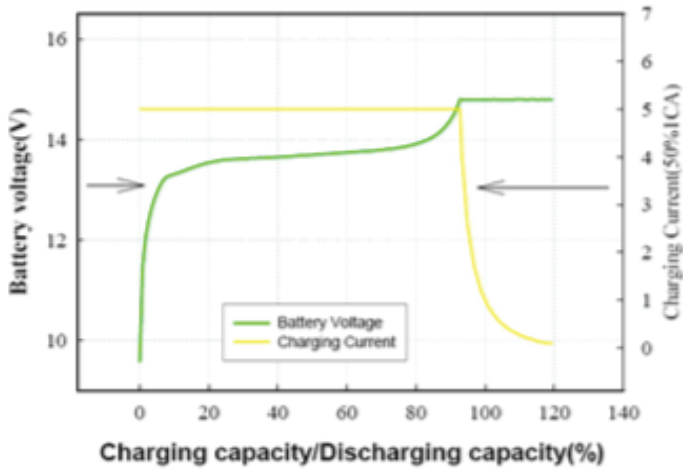
Charge Voltage: CC/CV 14.6V / Float 13.8V

Max Series Connection: 4

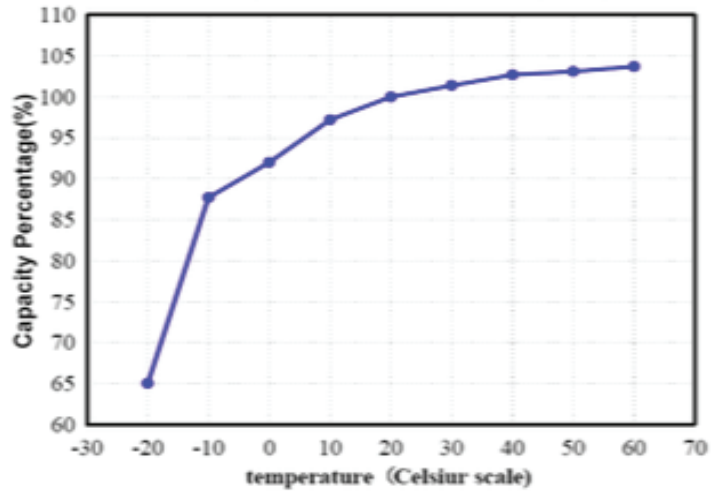
Max Parallel Connection: 4

Cell Type: Cylindrical LiFePO4

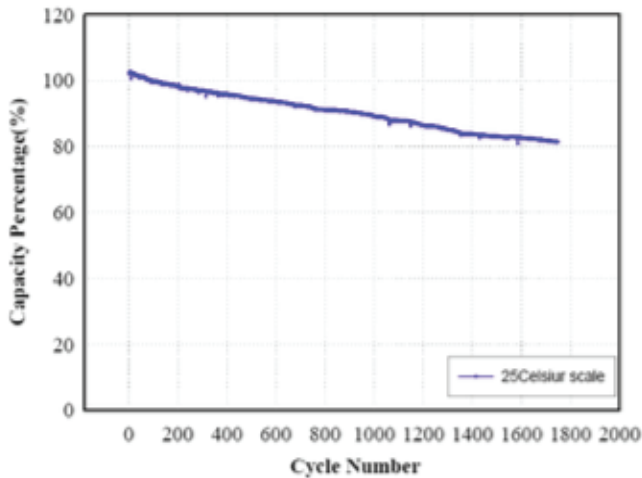
constant voltage charging characteristic  
(0.5CA, 25Celsius scale)



Temperature effects on capacity



Charging capacity/Discharging capacity (%)  
Cycle service life(100%Depth of discharge)





6.77 in.  
172 mm

12.13 in.  
308 mm

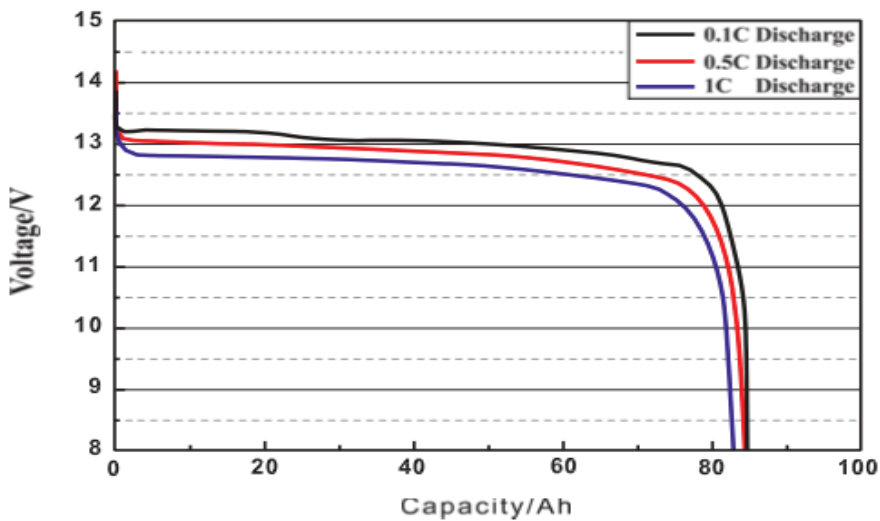
8.7 in.  
221 mm

## CYCLE LIFE

### CAPACITY AT DIFFERENT CYCLES (%)

100 cycles	99.7
500 cycles	96.3
1000 cycles	90.8
1500 cycles	85.4
2000 cycles	80.1

## 12V 80AH LITHIUM ION BATTERY



Amp Hours: 80AH

Voltage: 12.8V Nominal

Peak Amps: 800

Life Expectancy: 3000-5000 Cycles

LiFePo4 - Safe Battery

Weight: 25lbs. / 11.34kg

Efficiency: 99%

Minutes at 20A: 240

Memory: None

Max Continuous Charge: 1C = 80A

Max Continuous Discharge: 100A

Operating Temperature: -4 + 158 F / -20 + 70 C

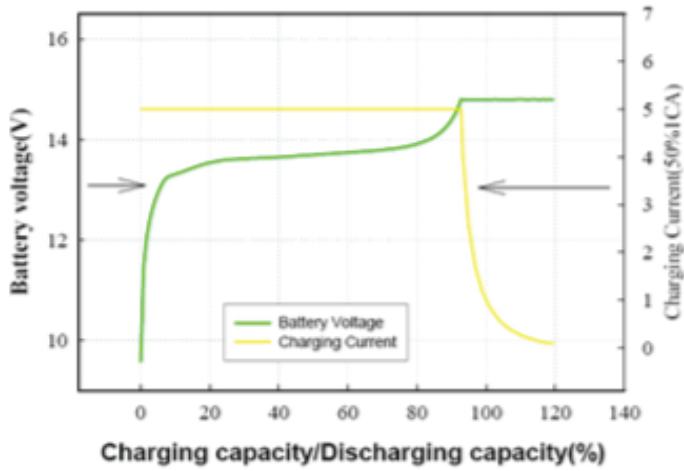
Auto Low Voltage Cutoff: 8V - 10V

Auto Over Voltage Cutoff: 15.8V

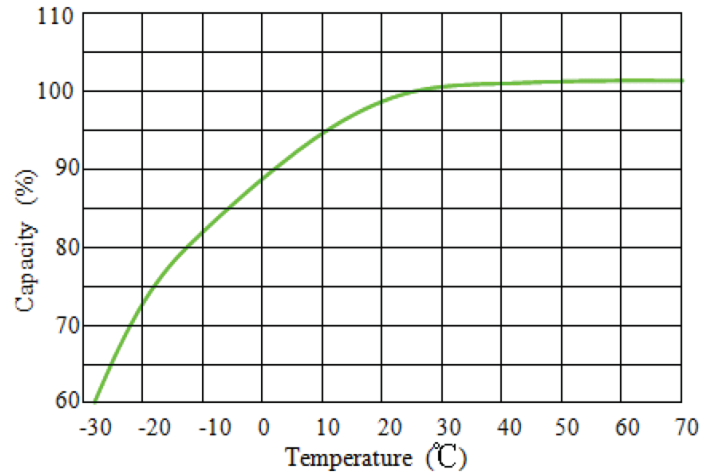
Charge Voltage: CC/CV 14.6V / Float 13.8V

Capacity at different cycles at 100% DOD

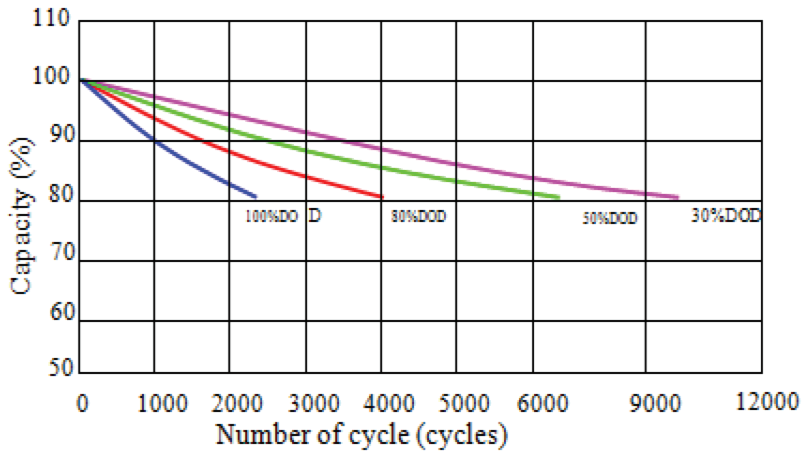
constant voltage charging characteristic  
(0.5CA, 25Celsius scale)



Temperature effects on capacity at 0.2C



Cycle life with DOD at 25°C, 0.2C







6.77 in.  
172 mm

8.5 in.  
216 mm

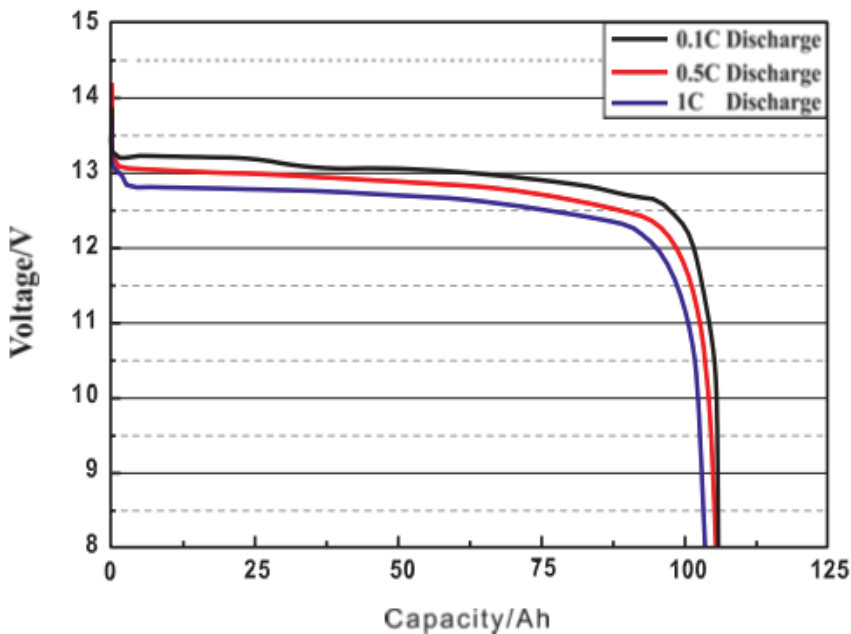
12.95 in.  
329 mm

## CYCLE LIFE

CAPACITY AT DIFFERENT CYCLES AT 100% DOD

100 cycles	99.7
500 cycles	96.3
1000 cycles	90.8
1500 cycles	85.4
2000 cycles	80.1

## 12V 100AH LITHIUM ION BATTERY



Amp Hours: 100AH

Voltage: 12.8V Nominal

Peak Amps: 1000

Life Expectancy: 3000-5000 Cycles

Weight (Battery Only): 32lbs. / 14.51kg

Efficiency: 99%

Minutes at 20A: 240

Max Continuous Charge: 1C = 100A

Max Continuous Discharge: 1C = 100A

Operating Temperature: -4 + 158 F / -20 + 70 C

Auto Low Voltage Cutoff: 8V - 10V

Auto Over Voltage Cutoff: 15.8V

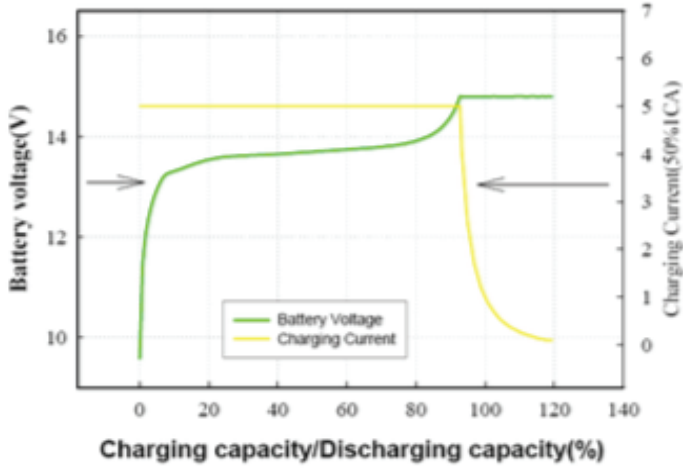
Charge Voltage: CC/CV 14.6V / Float 13.8V

Max Series Connection: 4

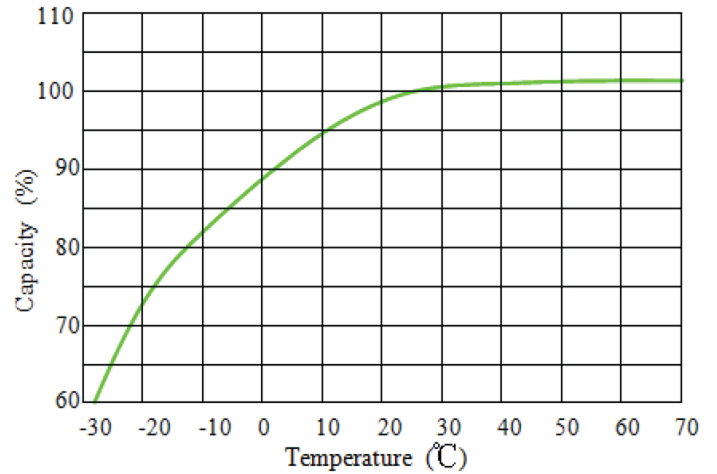
Max Parallel Connection: 4

Cell Type: Cylindrical LiFePO4

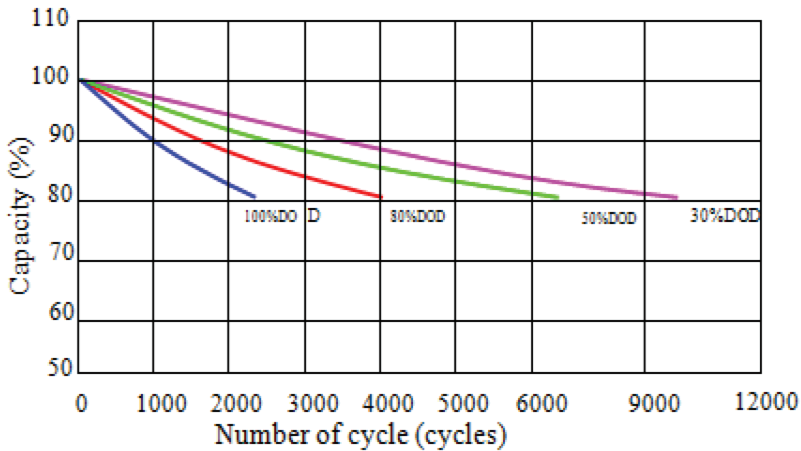
constant voltage charging characteristic  
(0.5CA, 25Celsius scale)



Temperature effects on capacity at 0.2C



Cycle life with DOD at 25°C, 0.2C





6.5 in.  
165.1 mm

12.52 in.  
318.0 mm

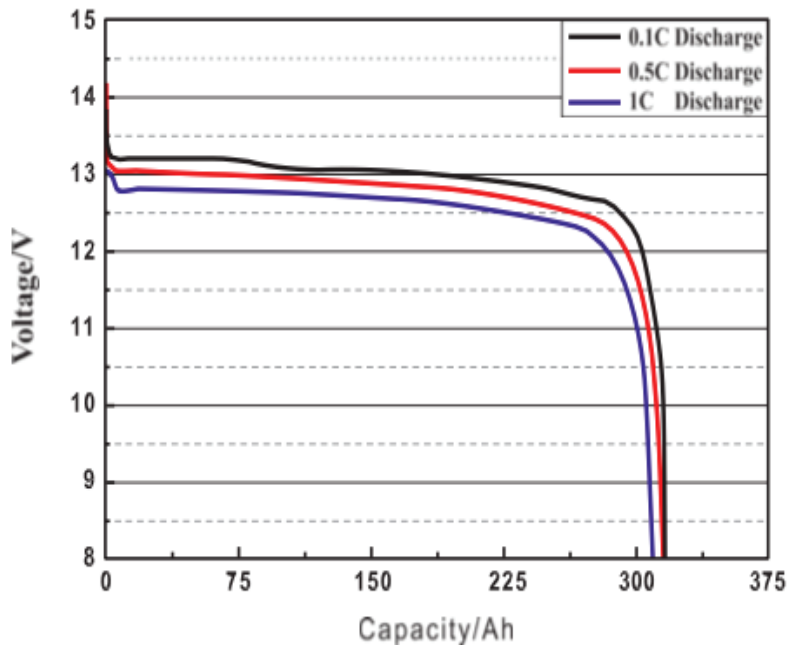
8.47 in.  
215.14 mm

## CYCLE LIFE

CAPACITY AT DIFFERENT CYCLES AT 100% DOD

100 cycles	99.7
500 cycles	96.3
1000 cycles	90.8
1500 cycles	85.4
2000 cycles	80.1

## 12V 100AH SC LITHIUM ION BATTERY



Amp Hours: 100AH

Voltage: 12.8V Nominal

Peak Amps: 1000

Life Expectancy: 3000-5000 Cycles

Weight: 28lbs. / 12.7kg

Efficiency: 99%

Minutes at 25A: 240

Max Continuous Charge: .6C = 60A

Max Continuous Discharge: 1C = 100A (20 Min)

Operating Temperature: -4 + 158 F / -20 + 70 C

Auto Low Voltage Cutoff: 8V - 10V

Auto Over Voltage Cutoff: 15.8V

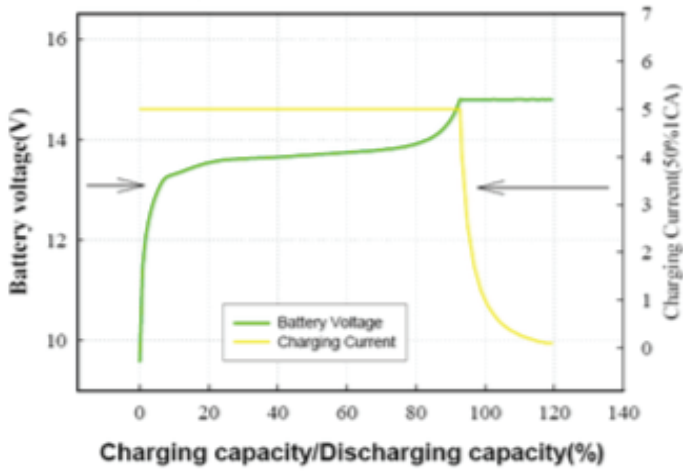
Charge Voltage: CC/CV 14.6V / Float 13.8V

Max Series Connection: 4

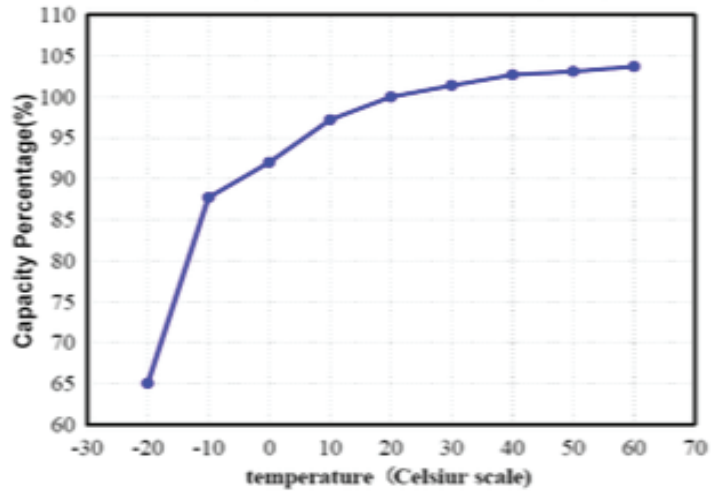
Max Parallel Connection: 10

Cell Type: Prismatic LiFePO<sub>4</sub>

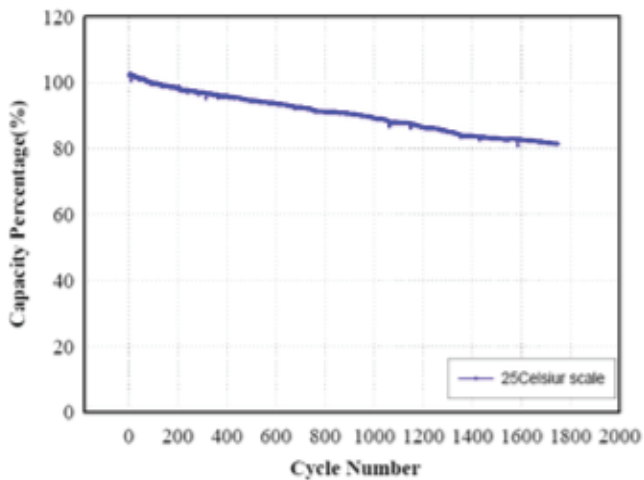
constant voltage charging characteristic  
(0.5CA, 25Celsius scale)

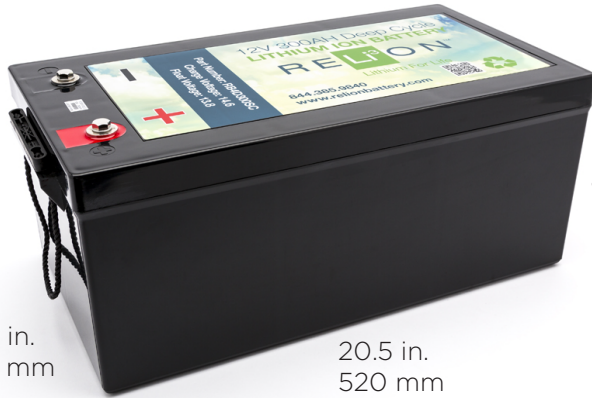


Temperature effects on capacity



Charging capacity/Discharging capacity (%)  
Cycle service life (100% Depth of discharge)





10.6 in.  
269 mm

20.5 in.  
520 mm

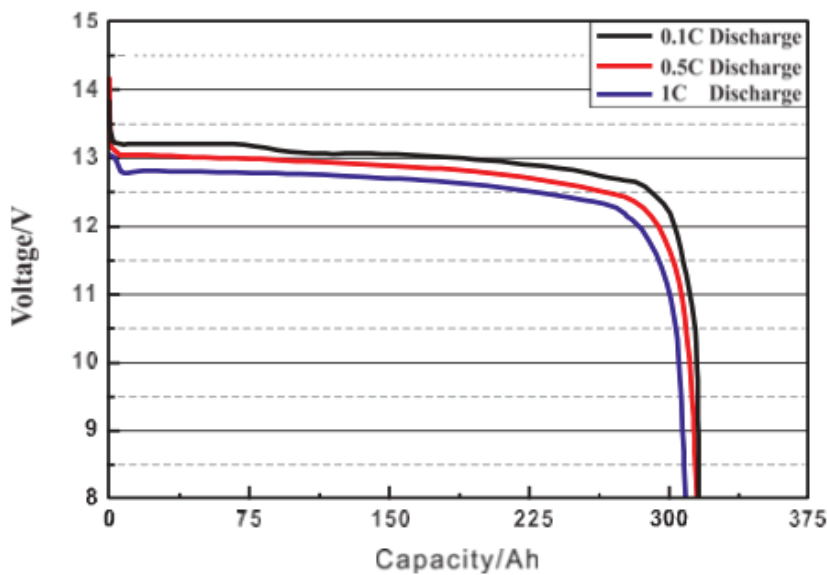
8.7 in.  
221 mm

## CYCLE LIFE

CAPACITY AT DIFFERENT CYCLES AT 100% DOD

100 cycles	99.7
500 cycles	96.3
1000 cycles	90.8
1500 cycles	85.4
2000 cycles	80.1

## 12V 300AH LITHIUM ION BATTERY



Amp Hours: 300AH

Voltage: 12.8V Nominal

Peak Discharge: 350A (3 sec)

Life Expectancy: 3000-5000 Cycles

Weight (Battery Only): 84lbs. / 37.7kg

Efficiency: 99%

Minutes at 50A: 360

Max Continuous Charge: 80A Max

Max Continuous Discharge: 80A

Operating Temperature: -4 + 158 F / -20 + 70 C

Auto Low Voltage Cutoff: 8V - 10V

Auto Over Voltage Cutoff: 15.8V

Charge Voltage: CC/CV 14.6V / Float 13.8V

Max Series Connection: 4

Max Parallel Connection: 10

Cell Type: Prismatic LiFePO4