



# LC 300L LiFePO4 Lithium Battery

12.8V | 300Ah | 3840Wh

## Electrical Specifications

Nominal Voltage	12.8V
Nominal Capacity	300Ah
Capacity @ 25 A	720min
Energy	3840Wh
Resistance	≤30mΩ
Self Discharge	<3 % / month
Cell Type	LiFePO <sub>4</sub>

## Discharge Specifications

Max. Continuous Discharge Current	200A
Peak Discharge Current	400 ± 30A (5.5 ± 1s)
BMS Discharge Cut-Off Current	600A (2 ms)
Recommended Low Voltage Disconnect	9.2 to 11.2V
BMS Discharge Cut-Off Voltage	> 10V (2.5V per cell)
Reconnect Voltage	> 11.2V (2.8V per cell)
Short Circuit Protection	200 to 600μs

## Charge Specifications

Recommended Charge Current	≤100A
Maximum Charge Current	150A
Recommended Charge Voltage	14.6V
BMS Charge Cut-Off Voltage	15V (3.75V per cell)
Reconnect Voltage	<14.4V (3.6V per cell)
Float Charge Voltage	13.8V
Maximum Batteries in Series	4

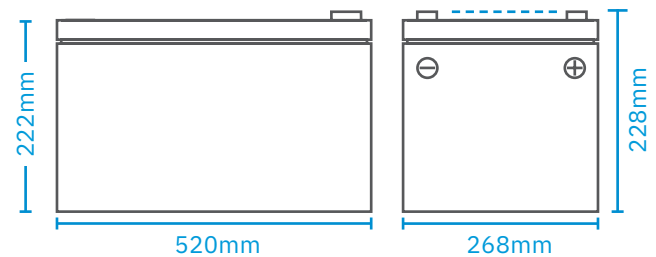
## Mechanical Specifications

Measurements (L × W × H)	520 × 268 × 228mm
Approx. Weight	37.5 kg
Terminal Type	M8
Terminal Torque	9 to 11 N m
Case Material	ABS
Enclosure Protection	IP65

## Temperature Specifications

Discharge Temperature	-20 to 60°C
Charge Temperature	0 to 45°C
Storage Temperature	-10 to 45°C
BMS High Temperature Cut-Off	65°C
Reconnect Temperature	50°C

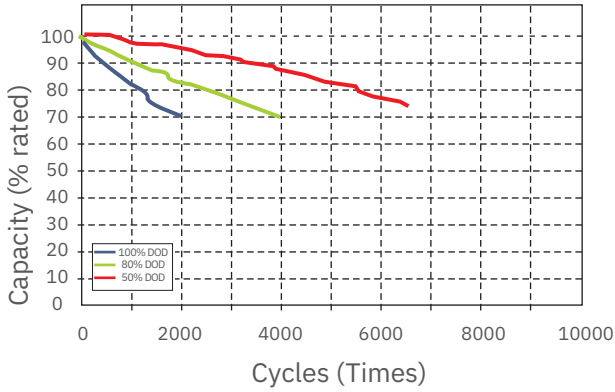
## Measurements



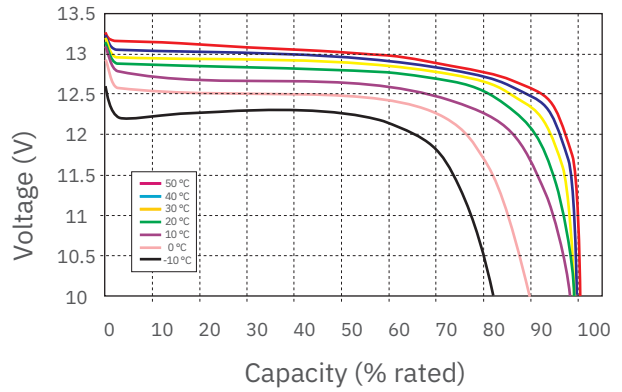
## Compliance

Certifications	CE (Battery) UN38.3 (Battery) RoHS
Shipping Classification	UN 3480, CLASS 9

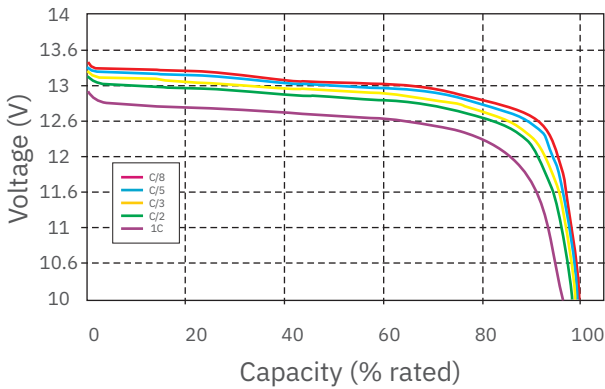
Cycle Life vs. Depth of Discharge (DOD)  
Discharge 0.5C / Charge 0.5C (25°C)



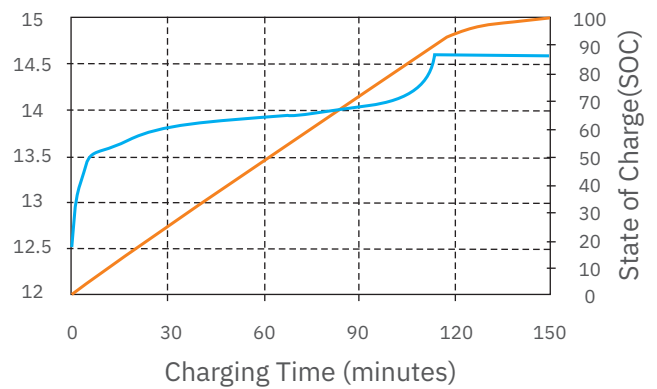
Discharge Voltage Profiles  
at 0.5C Discharge Rate  
(Various Ambient Temperatures)



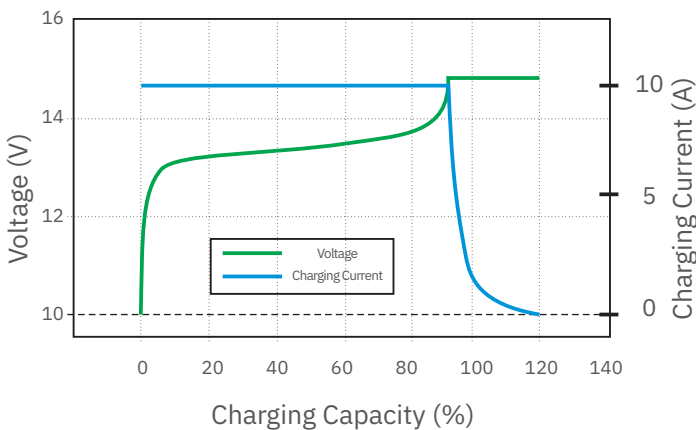
Discharge Voltage Profiles at Various Rates  
(25°C Ambient Temperature)



Typical Voltage and SOC Profiles  
at 0.5C Charging  
(25°C Ambient Temperature)



Charging Characteristics  
(0.5C at 20°C)



Constant Power Discharge Characteristics  
(25°C Ambient Temperature)

