

# DRIVE MOTION LITHIUM DATA SHEET



## LFP12.8V135AH (31)



### Electrical Specifications

Nominal Voltage	12.8 V
Nominal Capacity	135 Ah
Energy	1728 Wh
Self Discharge	≈3% per month
Efficiency	>98%
Parallel Support	Yes, Max 2 Sets
Series Support	Yes, Max 4 Sets

### Discharge Specifications

Max. Discharge Current	100 A
End of Discharge Voltage	11.2 V
Pulse Discharge Current	270 A @ 10s
Low Voltage Disconnect	10 V
Low Voltage Reconnect	11.2 V

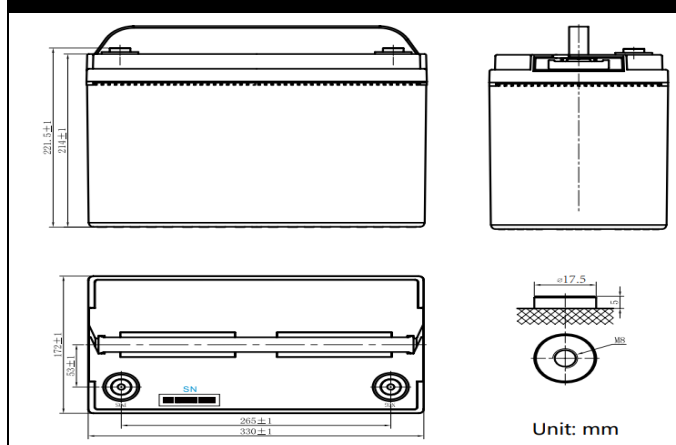
### Charge Specifications

Charging Voltage	14.6 V
Max. Charging Current	100 A
Recommended Charging Current	10 A - 67.5 A
High Voltage Disconnect	14.8 V
High Voltage Reconnect	13.8 V

### Temperature Specifications

Discharge Temperature	-20°C - +55°C (-4°F - +131°F)
Charge Temperature	-20°C - +55°C (-4°F - +131°F)
Storage Temperature	-10°C - +45°C (14°F - +113°F)
High Temperature Disconnect	+75°C (+167°F)
High Temperature Reconnect	+70°C (+158°F)
Low Temperature Disconnect	-20°C (-4°F)
Low Temperature Reconnect	-15°C (5°F)

### Dimensional Specifications



### Mechanical Specifications

Dimensions (Group 31)	330 x 172 x 214 (mm) 13 x 6.77 x 8.66 (in)
Weight	19 Kg (41.89 lbs)
Terminal Type	M8
Terminal Torque	9.8N/m
Enclosure Protection	IP65

### Selfheating Specifications

Heating Temperature	-20°C - +10°C (-4°F - +50°F)
Activation Voltage	14.6 V
Heating Current	7 A
Heating Power	100 W

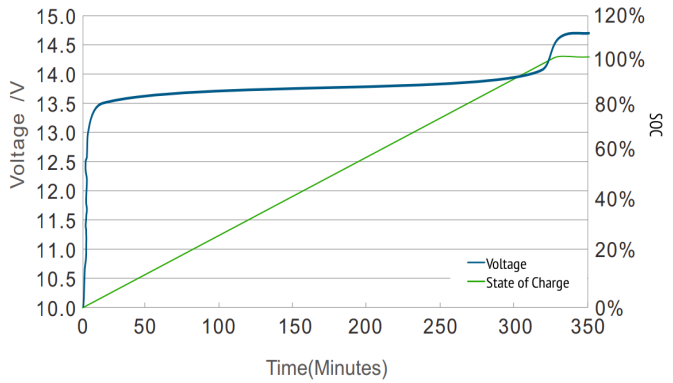
### Conception & Compliance

Conception	4S1P
Cell Type	Grade A Prismatic LiFePO4 cells (135 Ah)
Certifications	UN38.3 & CE (battery), UL1642 (cells)
Shipping Classification	UN 3480, CLASS 9

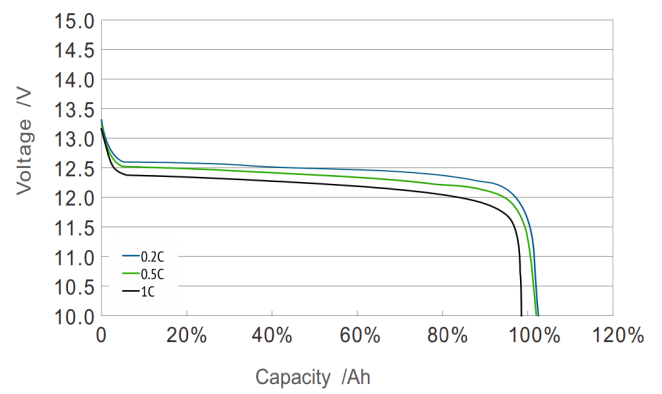
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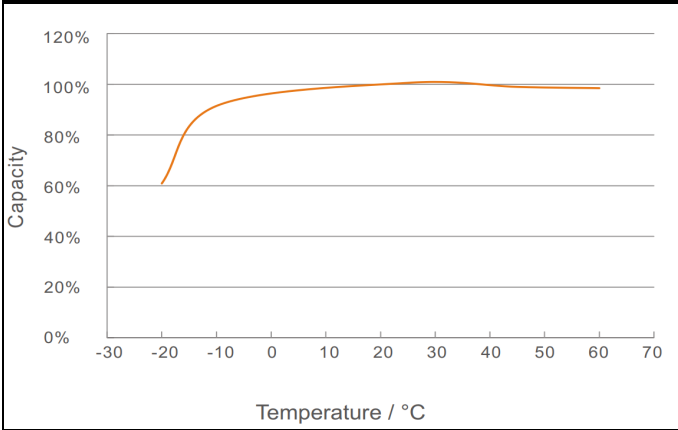
## Charge Voltage & State of Charge (SOC) 0.2C@25°C (77°F)



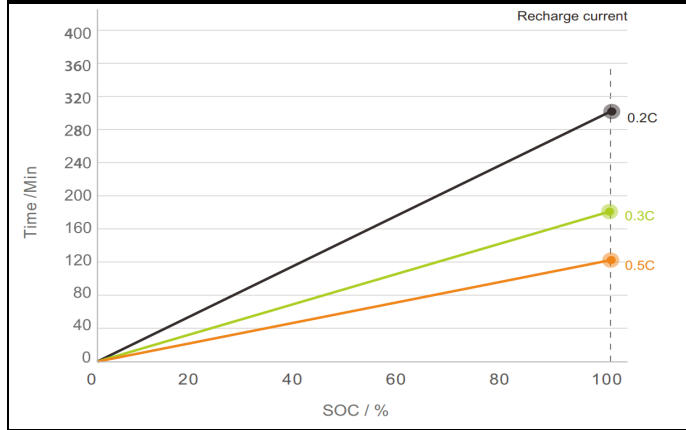
## Discharge Voltage Characteristics at Various Rates 25°C (77°F)



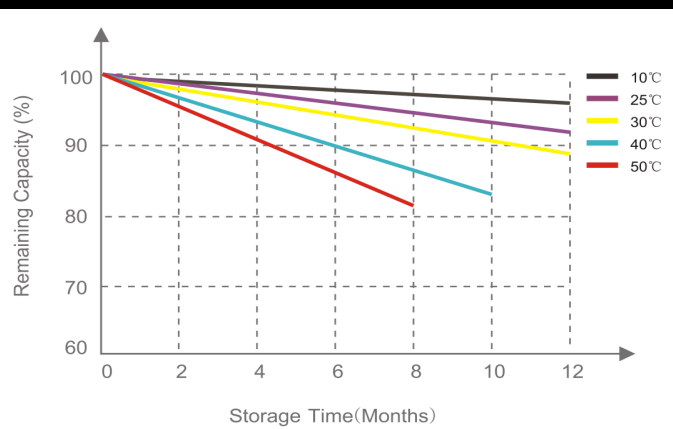
## Capacity at Different Temperatures



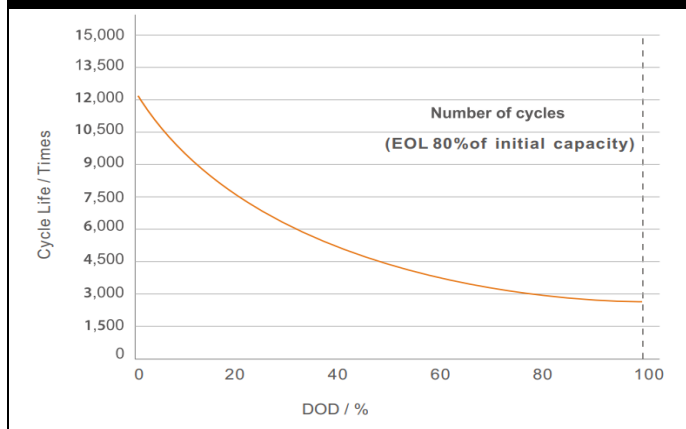
## Typical Recharge Time



## Self Discharge Curve at Different Temperatures



## Typical Cycle Life



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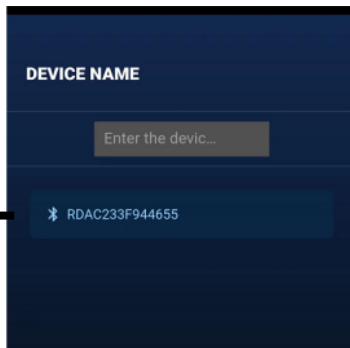


## Bluetooth App User Guide

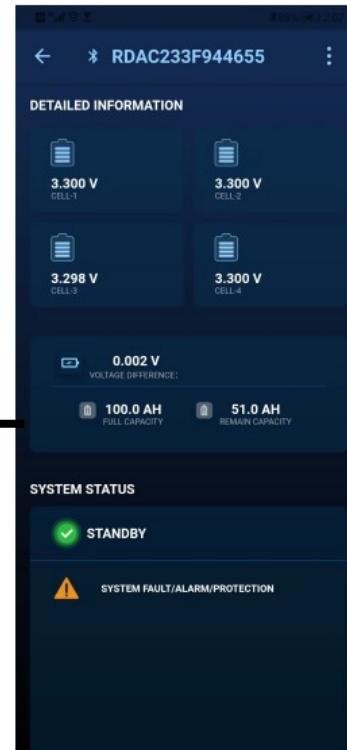
Note to user: If the battery receives no charge or is not discharged for over 60 mins, the battery will enter sleep mode. To wake up the battery, simply apply a charge or load and the battery will be visible and ready for pairing in the app.



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links



Bluetooth ID



Cell Voltage

Cell Voltage Difference

Rated Capacity

Remaining Capacity



State of Charge

Battery Voltage

Rated Capacity

Battery Current

Battery temperature

Charge & discharge  
MOS control status

Number of cycles

Status: Standby,  
Charge or Discharge

Alarm & Protection:

- Low temp. alarm
- Low temp. protection
- High temp. alarm
- High temp. protection
- Low voltage alarm
- Low voltage protection
- Over current alarm
- Short current protection