



# FUSION BATTERY

LITHIUM

**G-LFP-12-22**

**LITHIUM IRON PHOSPHATE BATTERY**

## PERFORMANCE

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

## FEATURES

- Lithium Iron Phosphate (LiFePO4)
- Integrated Battery Management System(BMS)
- BMS Intelligent Cell Balancing
- Sealed ABS Plastic Housing

## BATTERY DATA SHEET

### Electrical Parameters

Nominal Voltage	12V
Rated Capacity	22Ah
Energy	264Wh
Resistance	≤30m Ω
Efficiency	99%
Cycle Life	>2000cycles @1C,100% DOD
Self Discharge	2% per Month
Max. Battery connected in Series	4PCS
Max. Battery connected in Parallel	20PCS

### Discharge Parameters

Continuous Discharge Current	20A
Peak Discharge Current	60A(5 seconds)
Recommended Volt. Disconnect	10V
BMS Discharge Cut-off Voltage	8V
Reconnect Voltage	9.2V
Short Circuit Protection	200~600 us

### Compliance Certificate

Certifications	UL1642,UL2054
	CE
	IEC62133 & CB
	KC
	BIS
Shipping Classification	UN3480, Class 9,UN38.3

### Mechanical Parameters

Dimension(L x W x H)	168 x175 x 125 mm
	6.61 x 6.89 x 4.92"
Weight	3.0kg(6.6lbs)
Terminal Type	T-bar Connector
Battery Housing	ABS, UL-94 V-0
Housing Protection	IP65
Cell Type-Chemistry	LiFePO4 Cell

### Charge Parameters

Charge Method	CC-CV
Charge Voltage	14.4~14.8V
Recommended Float Voltage	13.8V
Recommended Charge Current	10A
Maximum Charge Current	20A
Minimum Charge Current	2A
BMS Charge Cut-off Voltage	15.6V

### Temperature Parameters

Discharge Temperature	-20 to 60°C (-4 to 140°F)
Charge Temperature	0 to 45°C (32 to 113°F)
Storage Temperature	-25 to 60°C(-13 to 140°F)
BMS Low Temperature Cut-off	-10°C(14 F)
BMS Low Temperature Turn-On	0°C (32 °F)
BMS High Temperature Cut-off	65°C(149°F)
BMS High Temperature Turn-On	48°C (118.4F)

#### HEAD OFFICE

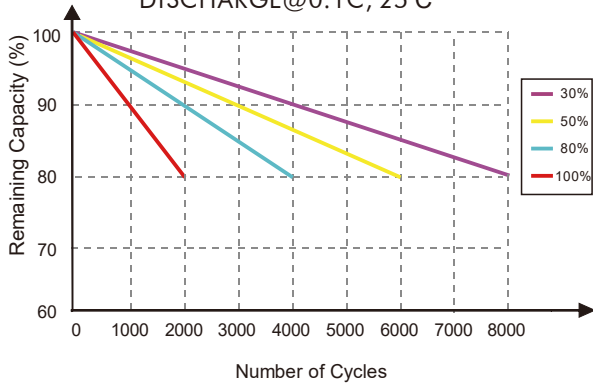
Unit 30 76 Hume Highway LANSVALE NSW 2166

Tel: +(02) 9755 7851 Fax: +(02) 9755 7852

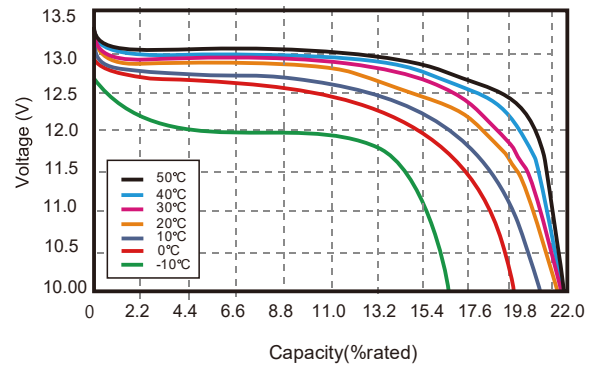
Email: batteries@superstart.com.au

## Performance Characteristics

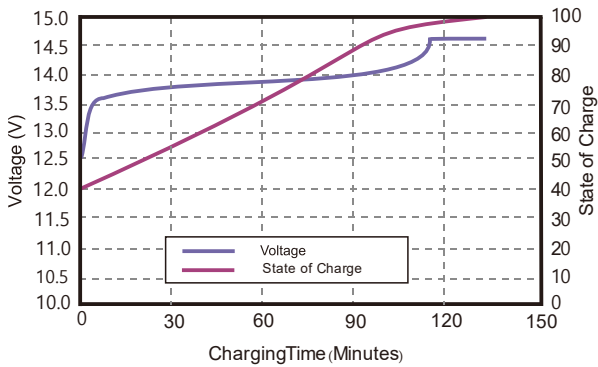
CYCLE LIFE vs. DEPTH OF DISCHARGE(DOD)  
DISCHARGE@0.1C, 25°C



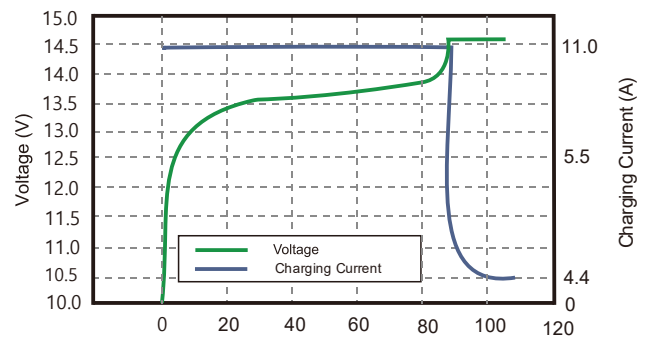
DISCHARGE CAPACITY at VARIOUS TEMPERATURES  
DISCHARGE @ 1C, 25°C



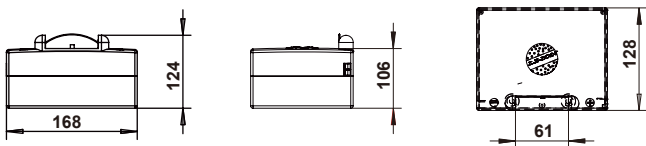
STATE OF CHARGE CURVE @0.5C, 25°C



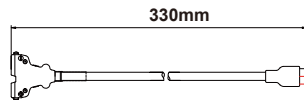
CHARGING CHARACTERISTICS @0.5C, 25°C



## Battery Dimension



T-bar Connector



## Battery Applications

+ Golf Trolley & Golf Carts

## Battery Fittings

14.6V4A

Battery Charger



T-bar Connector



**NOTE:**

Do Not Mix with sealed lead acid batteries.  
See Fusion user manual for operating Procedures.  
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