

FUSION

LITHIUM BATTERIES



V-LFP-12-7.5

LiFePO₄ Energy Storage
Deep Cycle Battery
The Future, TODAY!



3 YEAR WARRANTY

Fusion Lithium Batteries deliver **unmatched cycle life** at 100% DOD, **lower cost of ownership** with over 10 years design life and state of the art **BMS technology built in** for the ultimate in **Protection and Safety**

- LiFePO₄ chemistry offers the highest and safest power to weight ratio of any Lithium Ion battery
- Half the weight of an equivalent Lead-Acid battery
- Cycles over 1740 times to 100% depth of discharge
- Incredible charge and discharge rates, defying Puckert's Law
- Proudly Australian owned and operated, with local representatives for ideal service
- Built in State of the Art BMS controls cell balancing, over and under voltage protection and short circuit protection
- Housed in completely sealed, water-proof, advanced plastics for durability, performance and heat resistance
- Charge using a regular lead acid charger with float mode that does not have auto rejuvenation or auto pu lse
- An immense breakthrough in battery technology Leaves last centuries technology behind!

Applications

- Mobile energy storage; Motor homes, Camper Trailers, Caravans, Yachts, Kayaks and Catamarans
- Lithium Deep Cycle batteries are not suitable for Engine Starting applications
- Renewable and green energy applications
- Can be connected in Series and Parallel for greater storage
- High efficiency charging is well suited for Solar, Wind and Hydro energy storage



To find out more visit our website
www.fusionagmbatteries.com.au



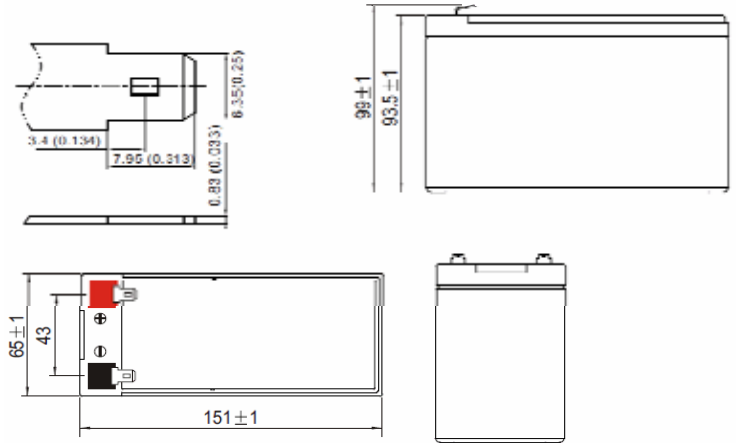
Nominal Technical Specifications

Voltage at Full Charge	13.3V
Max. Internal Resistance	<60mΩ
Capacity (Ah, 20Hrs, 0.2C)	7.5Ah
Capacity (Ah, 100Hrs, 0.2C)	7.8Ah
Capacity (Wh, 20Hrs, 0.2C)	105Wh
Specific Energy	116.7Wh/kg
Energy Density	85Wh/L
Max. Continuous Current	5A
Max. 10 Second Pulse	5A
Short Circuit Current	~100A
Cut off Voltage	9.2A
Cycle Charge Voltage	14.6V
Float Charge Voltage	13.8V
Charge Style	CC/CV*
Min. Charge Current	.75A
Std. Charge Current	1A
Max. Charge Current	5A
Max. connected in series	2 units
Max. connected in parallel	16 units
Cell Type	Prismatic
Container	FR / ABS
Length	151mm
Width	65mm
Height	94mm
Volume	.9L
Weight	1.2kg
Terminal Config.	T2
Max. Terminal Torque	N/A
Terminal Material	Forged Brass
Operating Temperature	-30°C to 60°C
Cycle Life @ 30% D.O.D.	8000 Cycles
Cycle Life @ 50% D.O.D.	2800 Cycles
Cycle Life @ 80% D.O.D.	1900 Cycles
Cycle Life @ 100% D.O.D.	1600 Cycles
Warranty	36 Months

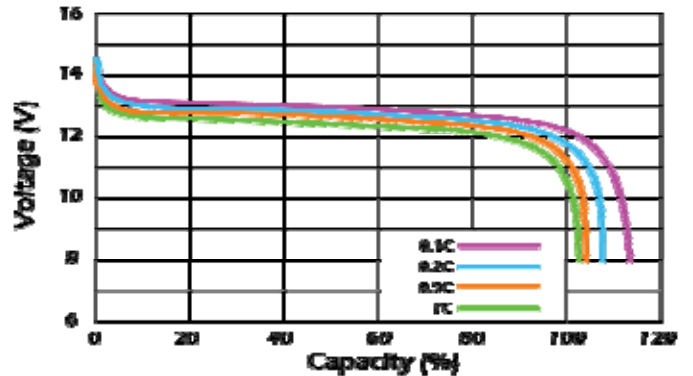
*Any Lead Acid charger with 'float' mode, must not have auto rejuvination or auto pulse
All technical specifications are measured at 25°C

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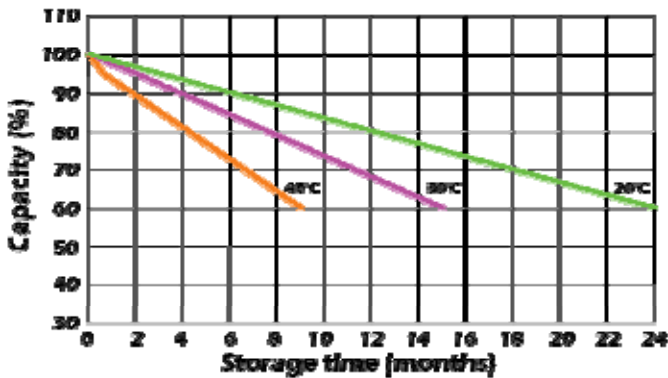
Technical Dimensions



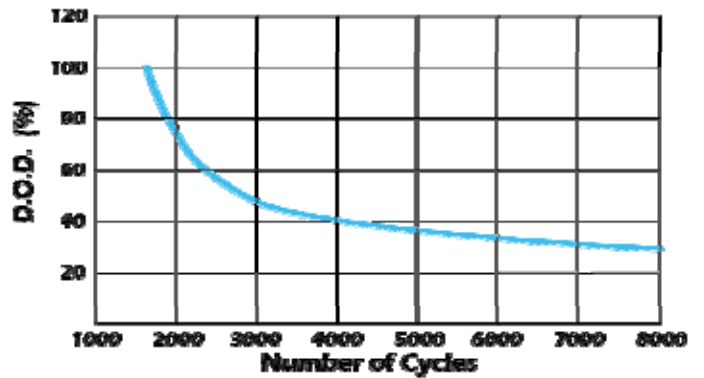
Discharge Performance



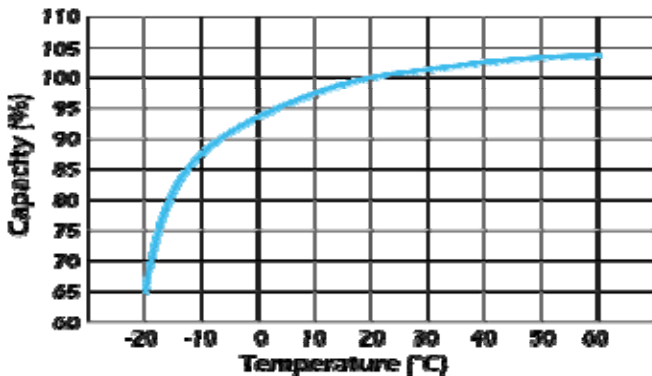
Self-discharge Characteristics



Cycle life in relation to Depth of Discharge



Temperature vs. Capacity



Temperature Vs. Cycle Life

