

FUSION

LITHIUM BATTERIES



3 YEAR
WARRANTY



LiFePO4 (Lithium Ion Phosphate Battery) for Cyclic & Standby Applications

- **Ultra Light Weight** - 1/3 of normal lead-acid battery
- **Longer Service Life** - Thousands of cycles at 100% DOD under normal conditions
- **Extremely Quick Recharge Time** - Can be recharged with 10C current and be 90% recharged within 6 minutes
- **Built in Battery Management System (BMS)**
- **Direct Drop-in Replacement for Lead Acid Batteries** - With over twice the run-time
- **Dry Cell Battery** - No leaks or spills
- **Built in Automatic Protection from Over Charge, Over Discharge and Over Temperature**
- **Safe to Use** - The battery cannot explode or catch fire under normal operating conditions
- **Long Shelf Life** - The battery can sit unused for over a year without losing charge
- **Superior Design & Quality** - Manufactured to Quality Assurance Standard ISO 9001
- **Uses Normal 12V Car Chargers** - It is one of the only Lithium batteries that can be charged using normal 12V car chargers/alternators
- **High Energy Efficiency** - Higher voltage resulting in a boost in performance
- **Made with Prismatic Cells** - Not cylindrical cells
- **100% Organic** - Fully recyclable and pollution free, making it an excellent green energy source
- **When Failure is not an Option** - Use only Fusion Lithium Batteries

QUALITY ASSURANCE
ISO 9001

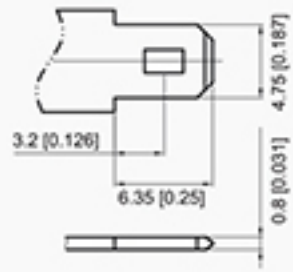


Fusion Lithium Batteries Terminal Options

T1 Terminal

Unit: mm [inches]

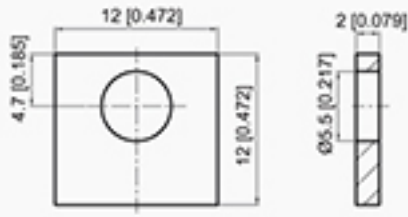
FASTON TYPE (Copper) quick disconnect tabs:
Silver coating for better conductivity



T3 Terminal

Unit: mm [inches]

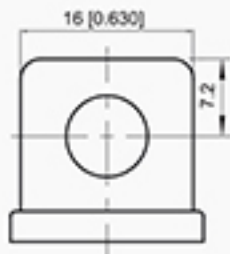
Brass Coated with Tin
Terminal Torque 3.9 - 5.4 N m



T5 Terminal

Unit: mm [inches]

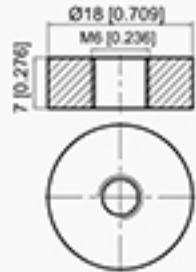
Lead
Terminal Torque 3.9 - 5.4 N m



T7 Terminal

Unit: mm [inches]

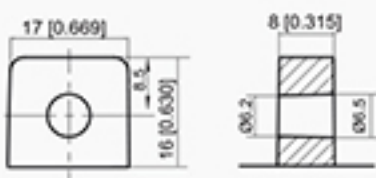
Brass Coated with Tin, Threaded Insert 6mm STUD
Terminal Torque 3.9 - 5.4 N m



T10 Terminal

Unit: mm [inches]

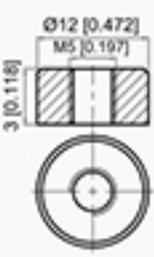
Lead
Terminal Torque 3.9 - 5.4 N m



T12 Terminal

Unit: mm [inches]

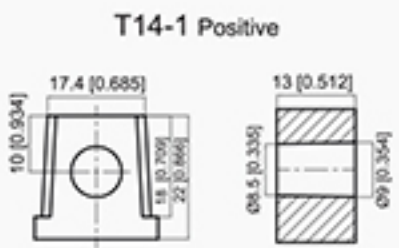
Brass Coated with Tin, Threaded Insert 5mm STUD
Terminal Torque 2.0 - 3.0 N m



T14 Terminal

Unit: mm [inches]

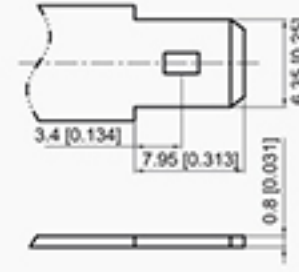
Lead
Terminal Torque 11 - 14.7 N m



T2 Terminal

Unit: mm [inches]

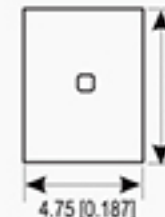
FASTON TYPE (Copper) quick disconnect tabs:
Silver coating for better conductivity



T4 Terminal

Unit: mm [inches]

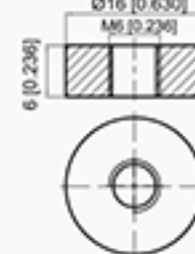
Brass Coated with Tin
Terminal Torque 3.9 - 5.4 N m



T6 Terminal

Unit: mm [inches]

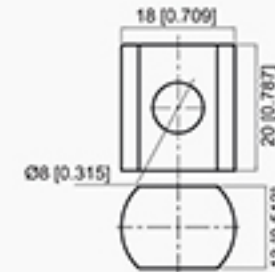
Brass Coated with Tin, Threaded Insert 6mm STUD
Terminal Torque 3.9 - 5.4 N m



T9 Terminal

Unit: mm [inches]

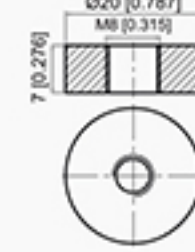
Lead
Terminal Torque 11 - 14.7 N m



T11 Terminal

Unit: mm [inches]

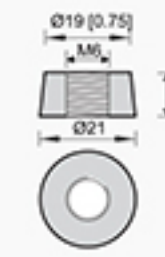
Brass Coated with Tin, Threaded Insert 8mm STUD
Terminal Torque 11 - 14.7 N m



T13 Terminal

Unit: mm [inches]

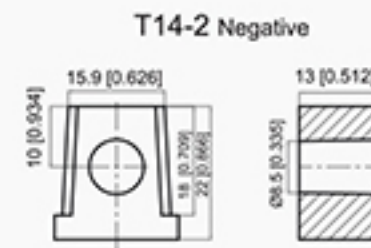
Brass Coated with Tin, Threaded Insert 6mm STUD
Terminal Torque 3.9 - 5.4 N m



T14 Terminal

Unit: mm [inches]

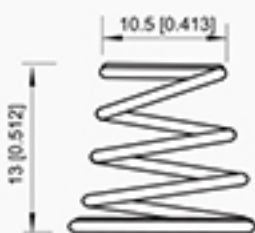
Lead
Terminal Torque 11 - 14.7 N m



Spring Terminal

Unit: mm [inches]

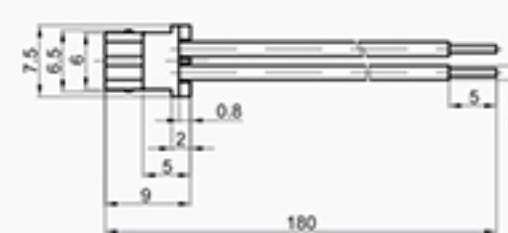
Spring Steel
Fully Collapsible



Connector

Unit: mm [inches]

Toy Battery Connector
H-Connector





Fusion Lithium batteries deliver safe lithium phosphate energy storage solutions in standard lead-acid battery sizes for a wide variety of applications. They are designed as a direct drop-in replacement for similar sized lead-acid batteries offering twice the run-time and less than half the weight.

Fusion Lithium Phosphate Batteries are an extremely light weight battery designed for deep-cycle (cyclic) applications and are a completely dry battery making them spill-proof and leak-proof. They can sit unused for over a year without losing charge and can also be charged extremely quickly without damaging the battery.

Unlike many other lithium batteries, Fusion Lithium Batteries are made using prismatic cells making them not only safe to use, but also boasts better cyclic properties and have a longer life (over 10 year design life). Other brands generally use cylindrical cells and while they may be cheaper due to lower manufacturing costs, they are inferior and are not designed for 12V battery applications.

Fusion Lithium Batteries is the Pioneer of 12V lithium deep-cycle batteries in Australia. We were the first and we are the best. We have been researching, testing and using 12V lithium batteries for deep-cycle and starting applications for over 5 years. We have also purchased and tested almost every other major brand of 12V lithium batteries from around the world and have designed Fusion Lithium Batteries batteries to be more superior in every aspect. Basically our lithium batteries are the most powerful and lightest 12V lithium batteries in the world.

Fusion Lithium Batteries are also one of the only Lithium Batteries that can be charged using normal 12V car chargers/ lead-acid battery chargers / alternators. Fusion Lithium Batteries are also 100% organic, fully recyclable and pollution free, making them an excellent green energy source.

All Fusion Lithium Batteries come with a true industry leading full 3 Year Warranty.

Specifications

MODEL	VOLTS	RATED CAPACITY (AH)		DIMENSIONS				ASSEMBLY FIGURE	WEIGHT (KG)	TERMINAL TYPE
		@20 RATE	EQUIVALENT TO LEAD ACID SIZE	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	TERMINAL HEIGHT (mm)			
V-LFP-12-7.5	12	7.50	15	151	65	94	100		1.0	T1
V-LFP-12-15	12	15	30	151	98	95	101		2.0	T1
V-LFP-12-18	12	18	36	181	77	167	167		2.9	T12
V-LFP-12-26	12	26	52	166	175	125	125		3.7	T12
V-LFP-12-26H	12	26	52	166	125	175	175		3.7	T12
V-LFP-12-40	12	40	80	195	130	155	168		6.6	T6
V-LFP-12-45	12	45	90	197	167	170	170		7.5	T6
V-LFP-12-50	12	50	100	239	132	205	210		7.7	T6
V-LFP-12-75	12	75	150	258	166	206	215		9.9	T6
V-LFP-12-100	12	100	200	330	171	215	220		14.3	T11
V-LFP-12-120	12	120	240	410	176	224	224		16.1	T11
V-LFP-12-140	12	140	280	341	173	283	287		17.9	T11
V-LFP-12-150	12	150	300	482	170	240	240		21.0	T11
V-LFP-12-180	12	180	360	530	209	214	220		23.6	T11
V-LFP-12-200	12	200	400	522	238	218	223		26.3	T11
V-LFP-12-250	12	250	500	520	269	203	208		32.4	T11
V-LFP-24-100	24	100	200	522	238	218	224		28.0	T11
V-LFP-48-50	48	50	100	522	238	218	224		28.0	T11

Rack Mounted Types

V-LFP-24-100R	24	100	200	442	360	132	132		33.0	Front
V-LFP-48-50R	48	50	100	442	360	132	132		33.0	Front

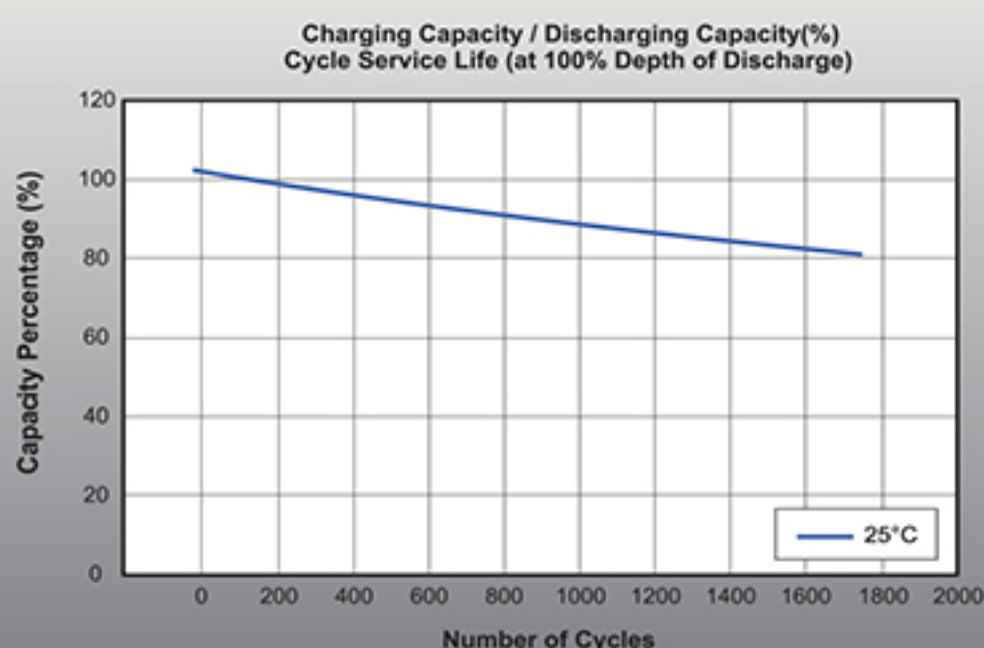


Typical Applications

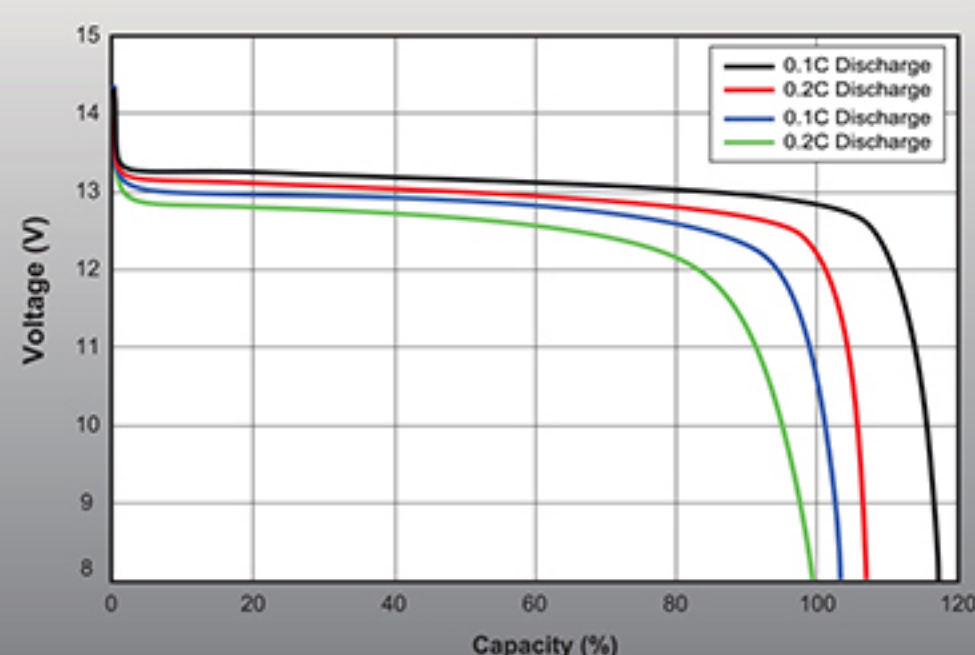
- Mobility Scooters
- Wheelchairs
- Golf Trolleys and Golf Cart
- Toys
- Power Tools
- Pump Systems
- Emergency Lighting Systems
- Fire & Security Systems
- Marine Equipment
- Caravans, Campervans & Motorhomes
- Portable Power
- Medical Equipment
- Vending Machines
- Telecommunication Systems
- Uninterruptible Power Supply (UPS)
- Electric Power System (EPS)
- Emergency Backup Power Supply
- Railway Signal
- Aircraft Signal
- Electronic Apparatus and Equipment
- Communication Power Supply
- DC Power Supply
- Auto Control Systems
- Solar Power Stations
- Television & Video Recorders
- Measurement Stations
- Boats or Buoys
- Signal Stations
- Survey and Mapping Systems
- Traffic Lights
- Street Lighting
- Street Signs
- SOS Pillars

Technical Diagrams

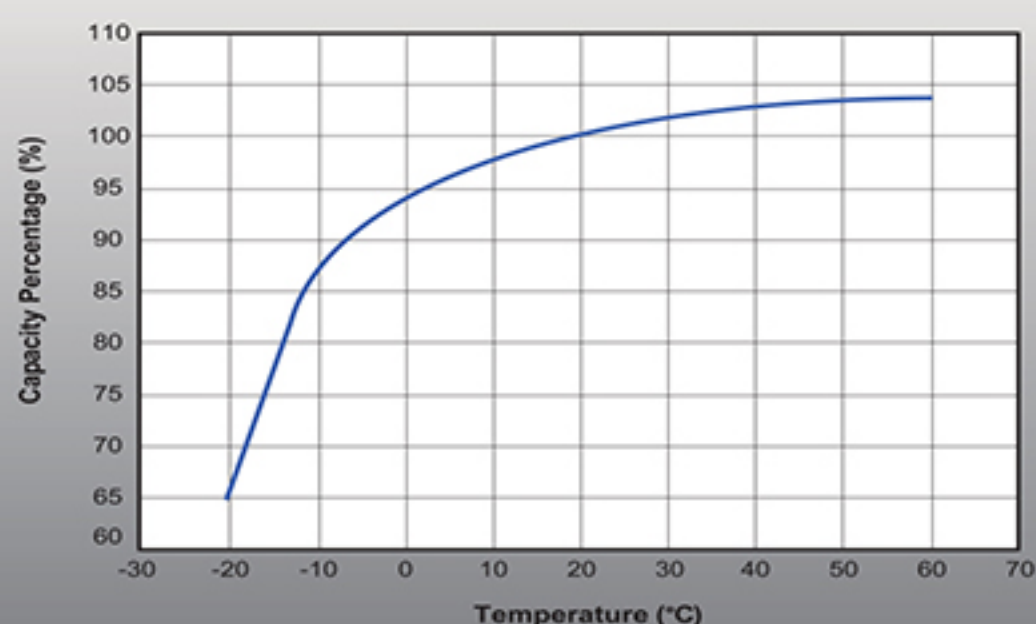
Discharge Characteristics



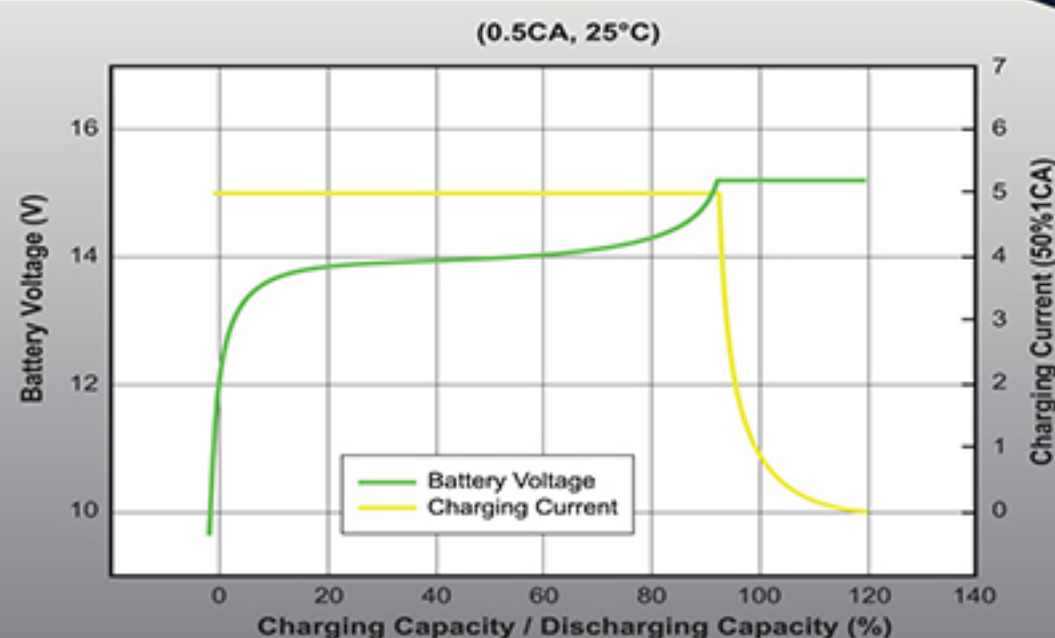
Discharge Performance



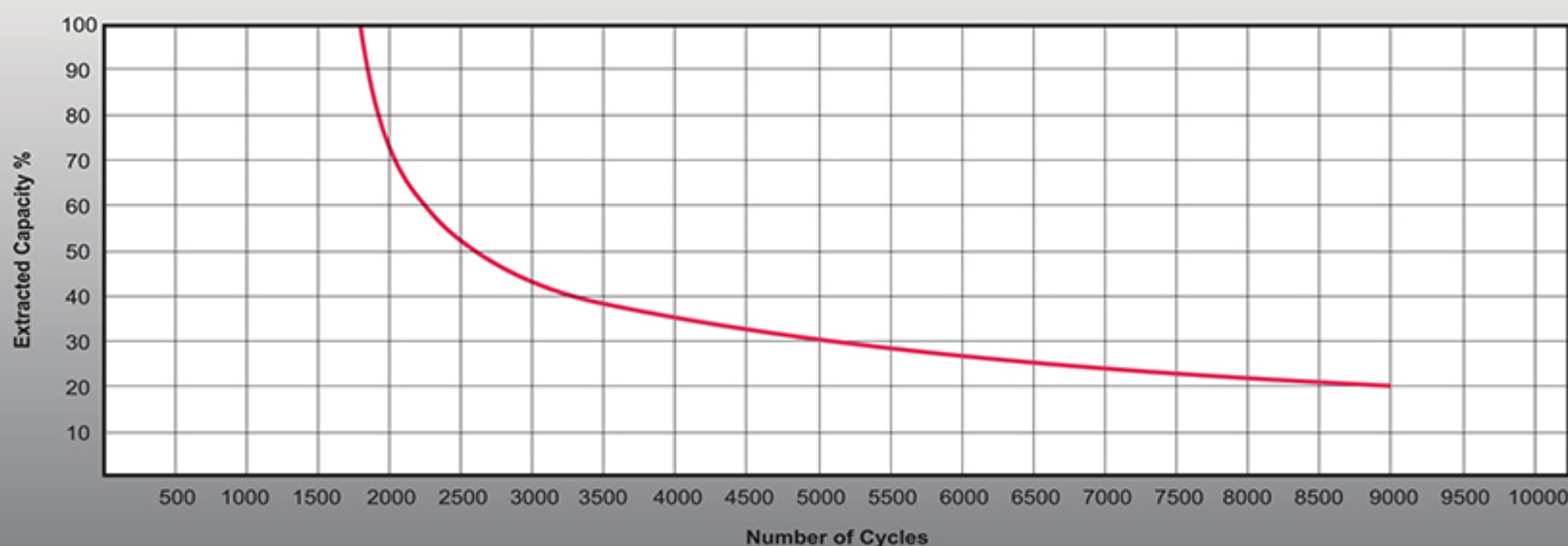
Temperature Effects in Relation to Battery Capacity



Constant Voltage Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Performance may vary depending on, but not limited to cell usage and application. If cell is used outside specifications performance will be diminished.

3 YEAR WARRANTY

Made with  **FIRE RETARDANT ABS PLASTIC**

