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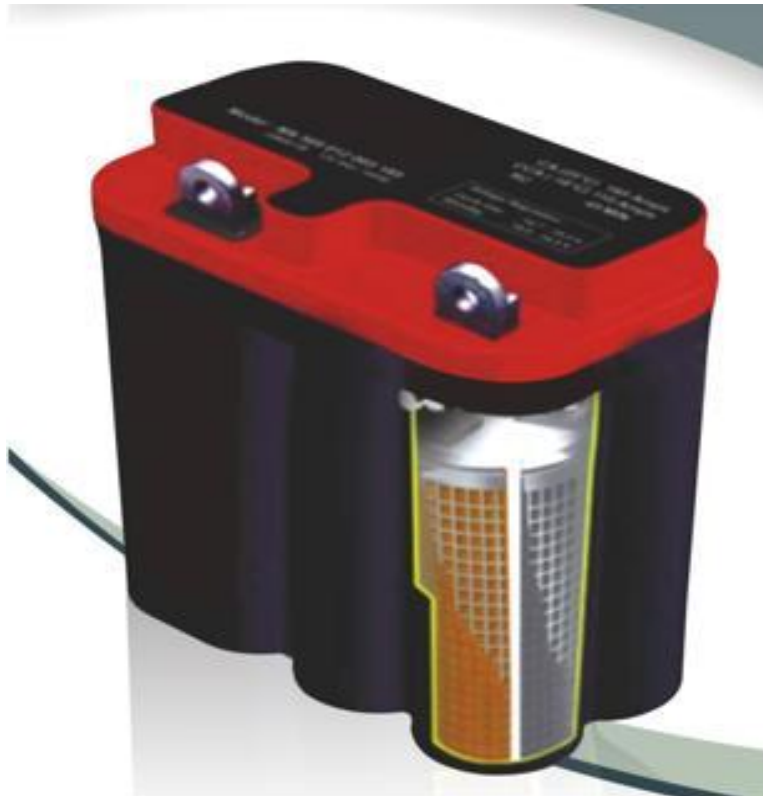
motorcycle battery spiral wound technology

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Never Says No...

This battery has been awarded by Guinness Book of Record for
"Smallest Battery can crank 8000cc truck engines"

- Longer life cycle
- High cranking power
- Vibration resistance performance and good charging acceptance
- Low self discharge
- Consistant Performance quality



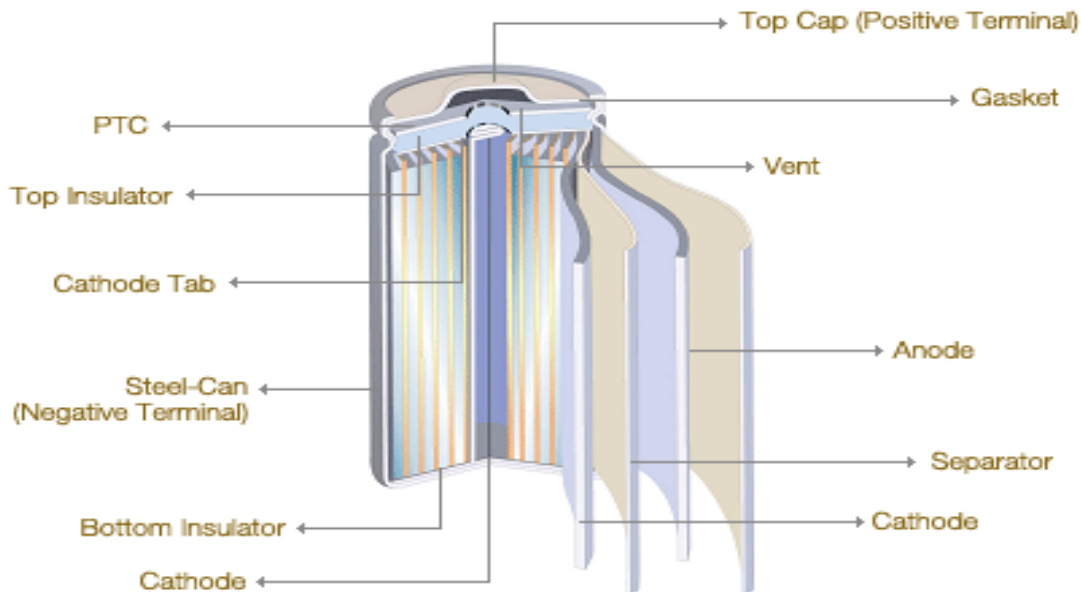
Maxima Battery (Spiral Wound Technology)

Introduction

MAXIMA battery comes with Spiral Wound Technology which is the most advanced battery technology with the many advantages over conventional lead acid battery in number of ways:

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What is a Spiral wound Technology



Spiral Wound Electrodes (Also called Jelly-roll or Swiss-roll construction) - In the quest for higher current carrying capacity, it is necessary to increase the active surface area of the electrodes, however the cell case size sets limits on the size of electrodes which can be accommodated. One way of increasing the electrode surface area is to make the electrodes and the separator from long strips of foil and roll them into a spiral or cylindrical jelly-roll shape. This provides very low internal resistance cells.

Construction of MAXIMA Battery

1 Each of its six cells is essentially a meter-long flexible mat tightly rolled into a cylindrical shape approximately the size of a beverage can. The mat is a sealed unit of thin lead plates and electrolyte, separated by an absorbent glass fiber material, which allows for high conductivity. The result is a highly efficient battery that never needs fluid added and doesn't leak or need gas venting.

2 Another feature of the MAXIMA battery is the combination of six terminals to facilitate installation in a wide variety of vehicles. Four top posts and two side terminals offer applications for virtually all cars and trucks, in addition to marine, construction and agricultural vehicles.

3 Benefits for the retailer/installer include longer shelf life, a much smaller number of models needed for stock and.

4 The MAXIMA can sit for one year without charging and still be able to start a vehicle. Recharging time is a fraction of what's required for conventional batteries.

Advantages of MAXIMA batteries over conventional Lead-Acid Batteries

- 1. Ready out of the box** - MAXIMA batteries are shipped fully charged. If the MAXIMA battery's voltage is 12.65V or greater, simply install the battery in your vehicle and you are ready to go! If below 12.65V, boost charge following the instructions in the MAXIMA battery's Technical Manual. Putting a boost on the battery will not damage it, even if its voltage reads higher than 12.65V.
- 2. Designed & built to last up to 2 times as long** - Thanks to rugged construction and AGM (Absorbed Glass Mat) design, Maxima batteries have up to 2 times longer life compare than conventional batteries in many applications.
- 3. High Cranking Power** - More power in the initial 1, 3, 5 and 10 seconds of the starting process than comparably rated conventional lead acid batteries.
- 4. Vibration Resistance** - The Maxima sealed design and tightly wound SPIRAL CELL TECHNOLOGY resists jarring and vibration, and eliminates plate shedding. The MAXMA battery is over 15 times more resistant to vibration than traditional flooded batteries.
- 5. Puffed Up Resistance** - It's also resistant to damage and can be mounted in any position (even upside down).
- 6. Low Self Discharge** - Because MAXIMA battery uses a unique lead grid design and high purity materials, it has a self discharge rate much lower than conventional batteries. A helpful feature for those vehicles that are put away for those long, winter months
- 7. Constant Performance Quality** - As the MAXIMA battery discharges during normal deep cycling use, the power level remains consistent providing more usable power to run the accessories and creature comforts found in today's commercial and recreational vehicles.
- 8. Non spillable in Any Position** – There is no free flowing acid in this battery making the battery safer for people, equipment, and the environment. Welded inter-cell connections enable it to withstand extreme vibration, and AGM design holds acid in place to prevent spills, even when installed on its side.
- 9. Maintenance Free** - Because of the unique design you can mount it in almost any orientation and you'll never have to add water or check fluid levels, making the MAXIMA battery maintenance-free.

Spiral wound Technology vs. Conventional Lead Acid Technology Comparison

	<u>Spiral Wound Technology</u>	<u>Conventional Technology</u>
Design Life	8-12 years (Float) @ 25° C (77° F)	5 years
Service Life	3 to 10 years	1 to 5 years
Electrolyte	Drycell (“starved electrolyte”) no external leakage or corrosion	Most are acid flooded (causing acid burns and spills); some wet sealed or “gelled”
Storage Life	2 years before needing charge @ 25°C (77°F)	6-12 weeks before needing charge
Shipping	Air transportable; US Department of Transportation classified non-spillable (less expensive)	Ground transport; classified as hazardous material (more expensive)
End of Life	Battery slowly loses power at end of life; no catastrophic failure	Immediate and catastrophic loss of power (can leave you stranded)