



# リチウム電池20年の歴史を塗り替える 世界初のDr.Ozawa®電池

World first new generation battery! in the 20 years of Lithium-ion battery history.  
Dr.Ozawa® Battery is safe and has excellent performance.



車載に搭載しても  
安心が約束される次世代電池  
既存のリチウムイオン電池とは異なり  
保護回路やBMSが不要

Safety of the new generation battery is promised  
even when it's loaded into a vehicle.  
A protection circuit and BMS are not required,  
and is different from ordinary Lithium-ion battery.

鉛電池に比べ約10倍の長寿命な電池  
鉛電池や既存のリチウムイオン電池のように  
「バッテリーあがり」が皆無で安心

Super long operating battery life is approximately  
10 times greater compared with lead battery.  
It is safe and without worry of "battery run out",  
unlike ordinary Lithium-ion battery or lead battery.

サイクル寿命は15,000回  
一般的な車載では生涯交換不要な長寿命

※車種や使用用途、使用環境により異なる場合があります

Life cycle is approximately 15,000 times,  
longer than ordinary vehicle life.

\*This life cycle may differ depending on the vehicle type, the condition and environment.

# 世界初、Dr.Ozawa®電池 6つの特長

## World first Dr.Ozawa battery, 6 Features



### Point 1

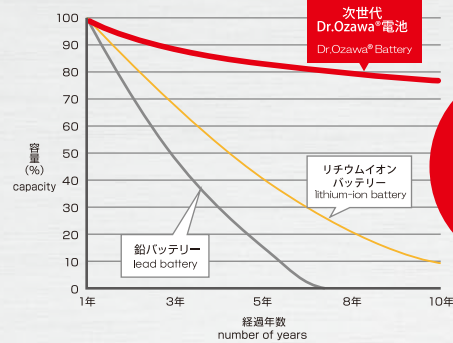
サイクル寿命は15,000回、一般的な車種では生涯交換不要な長寿命

Life cycle is approximately 15,000 times, and is long enough to last an ordinary vehicle life.

従来の鉛バッテリーと比べ、約10倍の長寿命バッテリー。15,000サイクルと一般的な車種では生涯交換不要な長寿命を誇り、また従来の鉛バッテリーと置き換えも可能でコストパフォーマンスにも優れている。自然放電も極めて少ない。

This is long-life battery which is approximately 10 times compared with a conventional lead battery. Life cycle is approximately 15,000 times, and is long enough to last an ordinary vehicle life. \*This life cycle may differ depending on the vehicle type, the condition and environment. This high cost performance battery can be exchanged from conventional lead battery. Natural discharge is very low.

### ■寿命比較 Life cycle comparison



約10倍の長寿命!

Long Life cycle, approximately 10times

### Point 2

発煙・発火・爆発の心配なし！  
爆発から守る鉄製ケースが不要で高い安全性を実現

This battery doesn't require metal case for protection from explosion, and safety has been proved through clearance of nail penetration test. Without any worry of smoke, igniting and explosion.

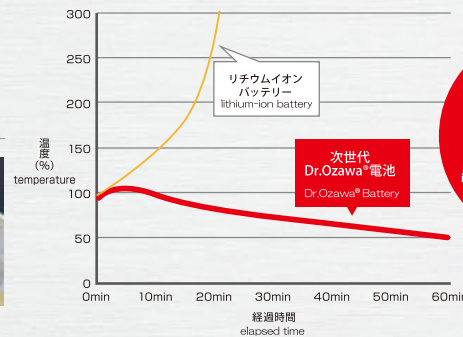
充放電とも完全イオン化した真のリチウムイオン電池で、完全イオン化しているため発煙や発火、爆発の心配がない。発煙・発火・爆発の心配がないため金属製ケースは不要で軽量化を実現。

This battery is perfectly ionized from both charging and discharging, and can be considered to be true Lithium-ion battery without any worry of smoke, igniting and explosion. This battery doesn't require metal case for protection from explosion, and safety has been proved through clearance of nail penetration test.



釘貫通試験 Kuginuki Toru test

### ■安全性 Nail Penetration Test



温度上昇しないため安全!

This battery is perfectly ionized from both charging and discharging and therefore safe.

### Point 3

BMS (保護回路) が不要なため並列・直列接続が可能  
Dr.Ozawa battery doesn't require BMS and Protection circuit. It is enabled to connect Serial and Parallel connection.

### Point 4

超急速充電が可能 (6C 充電可)  
Quick charge. (allow 6C charge)

### Point 5

ラッシュ電流に耐える大電流放電が可能  
且つレスポンスがスーパーキャパシタ並み

Large current discharge capability, to rush current is possible. And response is as good as super capacitor.

### Point 6

充放電共に既存のリチウムイオン電池とは異なる高性能を実現し  
BMSの制限で大量に搭載が必要だった既存のリチウムイオン電池にくらべ小型・軽量化が可能

High performance of this battery was achieved through charging and discharging which is different from ordinary Lithium-ion battery. New battery is small, light and doesn't have BMS, compared with a ordinary Lithium-ion battery which needs different quantities of battery required by restriction of BMS.

### ■仕様 Specification

スペック	14.4V 15Ah(最大充電電圧 16.8V)
総重	4.5 kg
連続定格	6C(充放電)
瞬間最大放電電流	30C
温度特性	-20℃～60℃(動作温度 -10℃～60℃)
サイクル寿命	約 15,000 回 (負荷により異なる)
自己放電率	3%以下 / 月
充放電追従性	1～5msec
セルタイプ	ラミネート型タイプ

Specification	14.4V 15Ah(Charging voltage 16.8V MAX)
Weight	4.5kg
Continuous current rate	6C(Charging and discharging rate)
Maximum discharging current	30C
Temperature property	-20℃～60℃(The movement temperature-10℃～60℃)
Life cycle	about 15,000times(depending on situations by user)
Self-discharge rate	Less than 3% per month
Response speed	1～5msec
Cell type	laminated type

### ■お問合せ先 Contact

〈販売元 Sales origin〉

Blue passion for tomorrow



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