



**ODYSSEY**  
BATTERY

The only battery built with...  
**PURE POWER**



**2X**  
POWER  
+  
**3X**  
THE LIFE  
OF  
CONVENTIONAL  
BATTERIES



# | ODYSSEY® Battery Range

# The ODYSSEY® Battery Range



## Four new ranges:

ODYSSEY® Performance (ODP) Automotive

ODYSSEY® Extreme (ODX)

ODYSSEY® Extreme (ODS) Power & Motorsports

ODYSSEY® Marine



**ODYSSEY**  
**BATTERY**

# ODYSSEY® Performance (ODP) Automotive



With 20 sizes, this range had been designed and engineered specifically for automotive type applications and footprints

Automotive



Light Commercial



Truck, Bus & Utility



Genset & Industrial



**ODP-AGM75 86** (75/86-705)

**ODP-AGM96R** (96R-600)

**ODP-AGM25**

**ODP-AGM35** (35-675)

**ODP-AGM34** (34-790)

**ODP-AGM34R** (34R-790)

**ODP-AGM78** (78-790)

**ODP-AGM24** (24-725)

**ODP-AGM24F** (24F-725)

**ODP-AGM47 H5 L2** (47-650 (LN2-H5))

**ODP-AGM65** (65-760)

**ODP-AGM48 H6 L3** (48-720 (LN3- H6))

**ODP-AGM94R H7 L4** (94R-850 (LN4-H7))

**ODP-AGM27** (27-850)

**ODP-AGM27F** (27F-850)

**ODP-AGM49 H8 L5** (49-950 (LN5-H8))

**ODP-AGM31** (31-925S)

**ODP-AGM31A** (31-925T)

**ODP-AGMDINB**

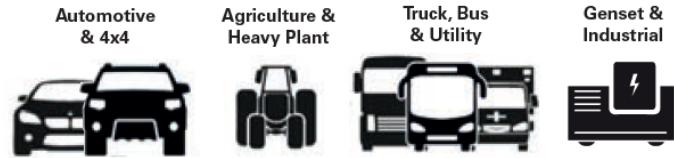
**ODP-AGMDINC**



# ODYSSEY® Extreme (ODX)



Where size and power matters, the ODYSSEY Extreme (ODX) battery gives you it all



<b>ODX-AGM34</b> (34-PC1500)
<b>ODX-AGM34R</b> (34R-PC1500)
<b>ODX-AGM34 78</b> (34/78-PC1500)
<b>ODX-AGM65</b> (65-PC1750)
<b>ODX-AGM31</b> (31-PC2150S)
<b>ODX-AGM31A</b> (31-PC2150T)
<b>ODX-AGM31MJ</b> (31-PC2150MJS)



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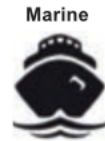
# ODYSSEY® Extreme (ODS) Power & Motorsports



With a pedigree and reputation known across the Power & Motorsports world, the ODYSSEY® Extreme Power & Motorsports (ODS) battery provides concentrated Extreme dual-purpose power while supplying exceptional reliability, service life and deep-cycle capabilities to keep you ahead.



Power & Motorsports



Marine



Motorbikes

<b>ODS-AGM8E</b> (PC310)
<b>ODS-AGM15L</b> (PC545)
<b>ODS-AGM15LMJ</b> (PC545MJ)
<b>ODS-AGM16B</b> (PC535)
<b>ODS-AGM16L</b> (PC680)
<b>ODS-AGM16LMJ</b> (PC680MJ)
<b>ODS-AGM16CL</b> (PC625)
<b>ODS-AGM28</b> (PC925L)
<b>ODS-AGM28L</b> (PC925)

<b>ODS-AGM28LMJA</b> (PC925MJT)
<b>ODS-AGM30E</b> (PC950)
<b>ODS-AGM42L</b> (PC1200)
<b>ODS-AGM42LMJ</b> (PC1200MJ)
<b>ODS-AGM40E</b> (PC1100)
<b>ODS-AGM70</b> (PC1700)
<b>ODS-AGM70A</b> (PC1700T)
<b>ODS-AGM70MJ</b> (PC1700MJ)



# ODYSSEY® Marine



This range is especially designed for marine applications, although can be used in other applications where size and fitments allow.

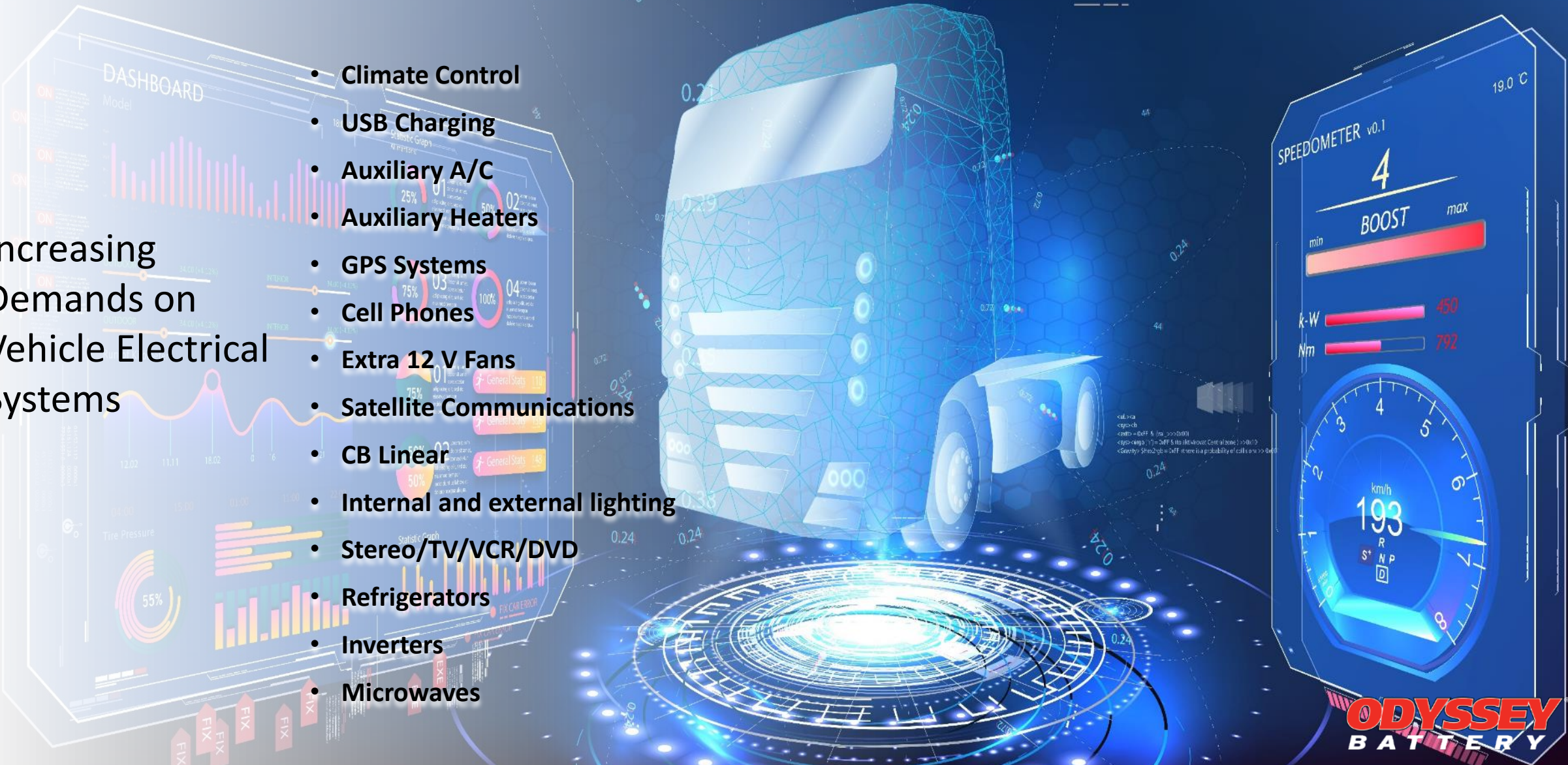
<b>ODP-AGM34M</b> (34M-790)
<b>ODP-AGM24M</b> (24M-725)
<b>ODX-AGM34M</b> (34M-PC1500ST)
<b>ODP-AGM27M</b> (27M-850)
<b>ODP-AGM31M</b> (31M-925)
<b>ODX-AGM31M</b> (31M-PC2150ST)
<b>ODS-AGM6M</b> (PC2250)
<b>ODP-AGMDINB</b> (629-DIN B-1300)
<b>ODS-AGM470FTT</b> (PC1800-FT)
<b>ODP-AGMDINC</b> (625-DIN C-1500)



# AGM Market for Vehicles is Growing Fast

Increasing Demands on Vehicle Electrical Systems

- Climate Control
- USB Charging
- Auxiliary A/C
- Auxiliary Heaters
- GPS Systems
- Cell Phones
- Extra 12 V Fans
- Satellite Communications
- CB Linear
- Internal and external lighting
- Stereo/TV/VCR/DVD
- Refrigerators
- Inverters
- Microwaves





# Applications & Concerns



## Passenger Cars



- Start-Stop
- Entertainment
- Info systems
- Comfort loads

## Emergency



- Engine Start
- Auxiliary power
- Charge acceptance

## Recreational



- Engine start
- Hotel loads
- Charge acceptance
- Temperature
- Parasitic loads

# Applications & Concerns



## Heavy Duty



- Engine Start
- Cycles
- Heavy loads
- Vibration
- Extreme temperatures

## Utility & LCV



- Engine Start
- Vibration
- Temperature
- Auxiliary electric apparel

## Public transport



- Engine Start
- Cold temperatures
- Parasitic loads
- Vibration
- Start-Stop



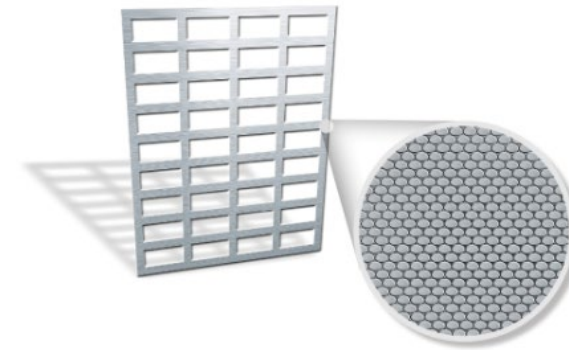
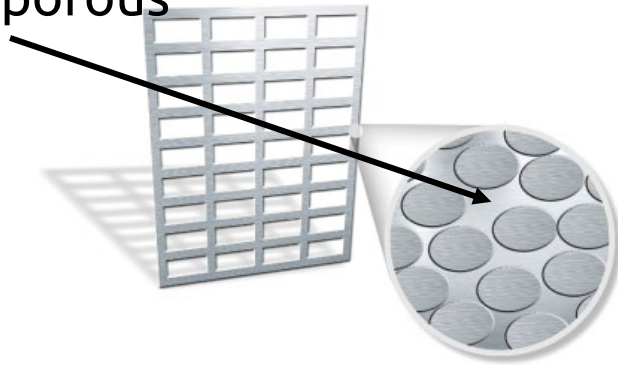
# | ODYSSEY® AGM TPPL Battery Technology

# Grid Structure Comparison



Conventional Flooded/AGM batteries use **alloyed positive grids** - PbCa (Lead Calcium)

- Causes 24/7 Grid corrosion
- Oxide is porous



## Standard AGM Positive Grid

Positive grid alloy is Lead-Calcium  
Corrosion at the grain boundaries leads to:

- × Grid corrosion
- × Grid growth
- × Reduction in current carrying capacity
- × Loss of contact between grid and active material

## AGM TPPL Positive Grid

- ✓ Pure Lead crystallography
- ✓ The very fine grain structure makes the grid far more resistant to corrosion
- ✓ Pure lead grids with the same design life can be much thinner than lead calcium grids

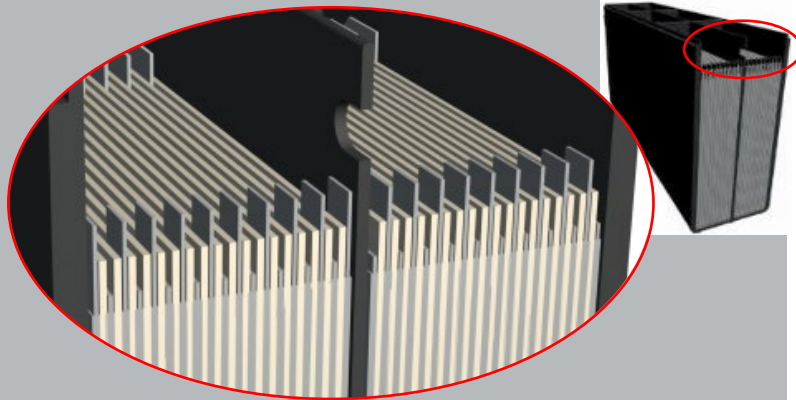
# Thin Plate Pure Lead (TPPL) Design



EnerSys' manufacturing process allows the processing of pure lead grids

Result: 1mm **THIN**

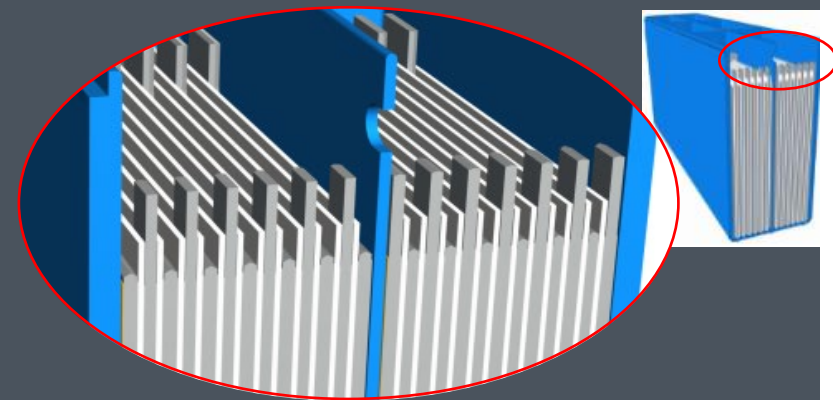
**ODYSSEY® AGM TPPL Battery**



Conventional battery bookmold casting requires artificial hardeners to process grids

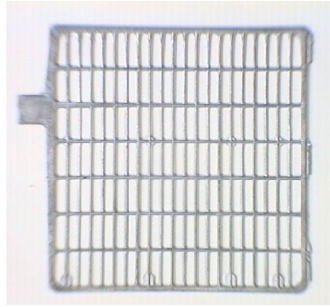
Result: 2 - 4 mm **THICK**

**Standard AGM book-mold casting**

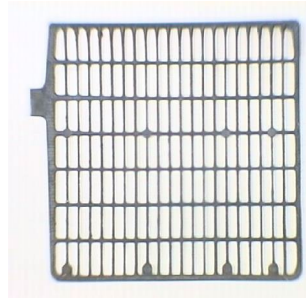


Thin Plate Pure Lead Technology = More plates in each 2 volt cell  
Result = more cranking amps and superior power & energy density

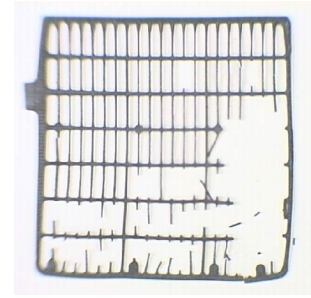
# Grid structure age testing



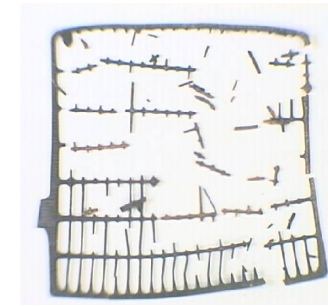
**New Lead-Calcium**  
Positive grid



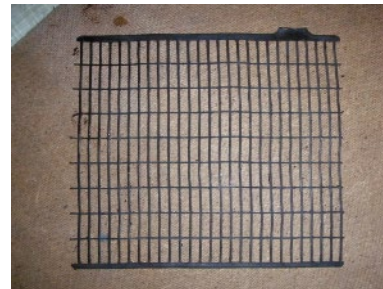
80 days at 2.27VPC  
@ 55°C



320 days at 2.27VPC  
@ 55°C



**Lead-Calcium grid** at 400  
days at 2.27VPC @ 55°C



**AGM TPPL Grid** at 400 days  
Grid remains intact!!



# | Top reasons to choose an ODYSSEY® Battery

# Top reasons to choose an ODYSSEY® Battery



1

It's the only battery built with...

## PURE POWER

Super-High-Grade Materials

+

Refined Chemical Formulae

+

Thin Plate Pure Lead (TPPL)



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# Top reasons to choose an ODYSSEY® Battery



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Twice the power and three-times the life of any other conventional battery



2X  
POWER  
+  
3X  
THE LIFE  
OF  
CONVENTIONAL  
BATTERIES

**ODYSSEY**  
BATTERY

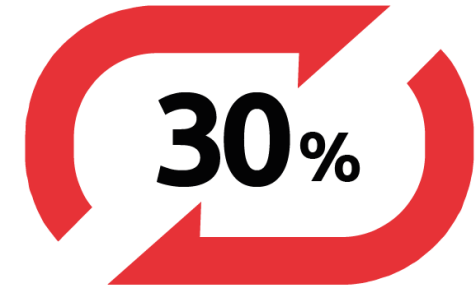
# Top reasons to choose an ODYSSEY® Battery



## 3 True dual-purpose capability



**MASSIVE  
STARTING  
POWER**



**MORE  
DEEP-CYCLE  
CAPABILITY**

**ODYSSEY**  
BATTERY

# Top reasons to choose an ODYSSEY® Battery



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Massive starting power allowing engine cranking pulses up to 2,700 amps for five seconds



**HIGHEST CCA AVAILABLE**



Code	ODP-AGMDINC	ODP-AGMDINB	ODP-AGM49	ODP-AGM94R
Standard Size	DIN C	DIN B	L5	L4
Ah	220	170	94	80
CCA	1500	1300	950	850

**ODYSSEY**  
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# Top reasons to choose an ODYSSEY® Battery

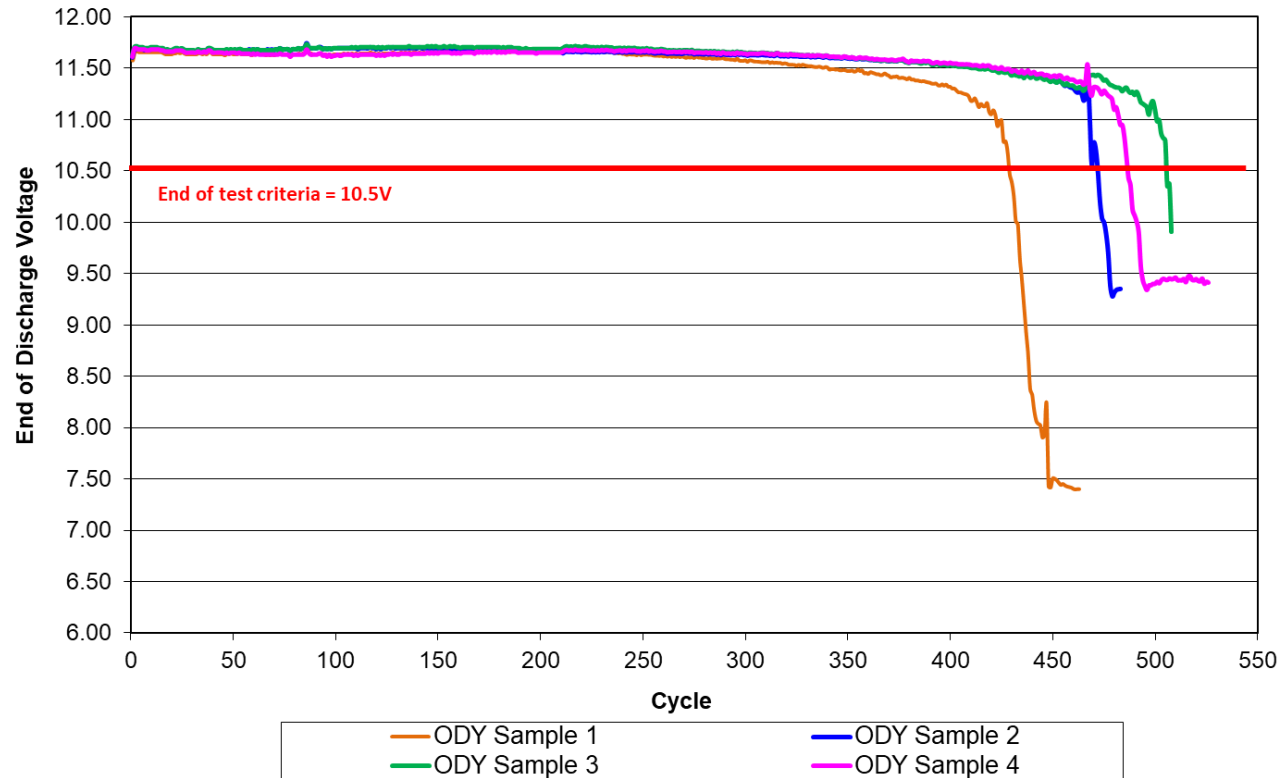


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## Exceptional Cycle-life

**30%**  
**MORE**  
**DEEP-CYCLE**  
**CAPABILITY**

Odyssey 80% DOD Cycle Life



# Top reasons to choose an ODYSSEY® Battery



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## Longer storage life

A superior build quality means that the internal resistance in each battery is reduced to an absolute minimum. The lower the internal resistance the lower the loss of self-discharge.

This means that an ODYSSEY Battery can be stored for at least two-years or down to 12.60 volts



**TWO YEAR  
MARKET LEADING  
SHELF LIFE**

**ODYSSEY**  
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# Top reasons to choose an ODYSSEY® Battery



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## Extreme Temperature Tolerance

From a freezing  $-40^{\circ}\text{C}$  to a blistering  $+80^{\circ}\text{C}$

Born in the military and tested in some of the harshest conditions on earth – ODYSSEY Batteries are proven to outlast other batteries when it comes to the extremes.



**ODYSSEY**  
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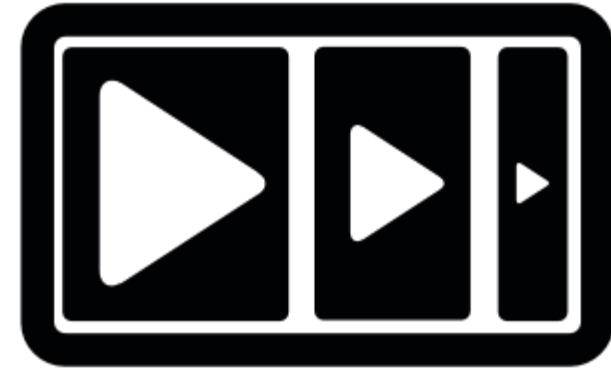
# Top reasons to choose an ODYSSEY® Battery



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## Faster Recharge

Due to the exceptional build quality ODYSSEY AGM batteries have the highest recharge efficiency of any sealed lead battery on the market — capable of 100% recharge in less than two hours.



**ODYSSEY**  
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# Top reasons to choose an ODYSSEY® Battery



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## Industry leading warranty

3-year warranty



**ODYSSEY**  
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# Forward Looking Disclaimer Statement

This presentation includes forward-looking statements and / or information, which are based on the Company's current expectations and assumptions, and are subject to a number of risks and uncertainties that could cause actual results to materially differ from those anticipated. Such risks include, among others, risk associated with competitive actions, technology development and implementation, intellectual property infringement, failure to integrate acquired businesses, penetration of existing markets, expansion into new markets, hiring and retaining high quality management and key employees and general economic conditions including the risks described in the Company's most recent annual / quarterly report, as applicable, on Form 10-K / 10-Q respectively, filed with the SEC, along with other unforeseen risks. Nothing that we say today should be interpreted as an update to the information or guidance that we provided in our most recent investor call, our most recent quarterly / annual report, as applicable, on Form 10-Q/10-K respectively, filed with the SEC, and our current reports filed with the SEC on Form 8-K since quarterly / annual report.