

CONVENTIONAL. ABSORBED GLASS MAT. THIN PLATE PURE LEAD (TPPL)

BATTERY COMPARISON

Not all battery technologies are the same. The differences between conventional flooded lead acid batteries, standard Absorbed Glass Mat (AGM) batteries and ODYSSEY® AGM² Thin Plate Pure Lead (TPPL) batteries are clear. Refer to the chart below to discover the advantages of ODYSSEY TPPL batteries.



	Conventional Batteries	Standard AGM Batteries	ODYSSEY® batteries	ODYSSEY® Battery Benefit
Technology	Flooded lead acid	AGM lead acid	AGM ² TPPL lead acid	AGM ² TPPL technology has superior rechargability and the lowest self discharge rate of any lead acid battery.
Plate thickness	Medium thick plates	Medium thick plates	Thin plates	99% pure lead plates are extremely thin so more of them fit in the battery. More plates = more power.
Terminals	Solid lead	Solid lead	Available with solid lead, solid brass and tin-coated brass	Where available, solid brass terminals help ensure corrosion-free cable connections; brass also provides higher electrical conductivity for higher capacity.
Top lead	Through-the-wall	Through-the-wall	Through-the-wall (Performance) Over-the-wall (Extreme)	Performance: A large weld design helps reliable performance and allows for maximum plate height. Extreme: Robust intercell connections are cast and bonded to plates to resist vibration and help ensure stronger internal connections.
Storage life	6 to 12 weeks before needing charge	6 to 12 weeks before needing charge	Up to 2 years before needing charge at 77°F (25°C)	ODYSSEY batteries are ready when you are, eliminating the need for extra charging while not in use.
Shipping	Ground transport; classified as hazardous material	Air transportable; US Department of Transportation classified non-spillable	Air transportable; US Department of Transportation classified non-spillable	With the ability to transport via air vs. ground, ODYSSEY batteries provide a less expensive and faster delivery method.

AGM² THIN PLATE PURE LEAD (TPPL) TECHNOLOGY

2X
POWER
+
3X
THE LIFE
OF
CONVENTIONAL
BATTERIES

AGM² INSIDE

Super high-grade materials + refined eChem + Thin Plate Pure Lead (TPPL) gives 2X the power and 3X the life.



MASSIVE STARTING POWER

Engine cranking pulses up to 2700 amps for five seconds.



LONGER LIFE

3- to 10-year service life.



VIBRATION RESISTANT

Extreme protection against high-impact shocks and vibration.



EXTENDED CYCLE LIFE

Up to 900 charge-discharge cycles at 50% depth of discharge.

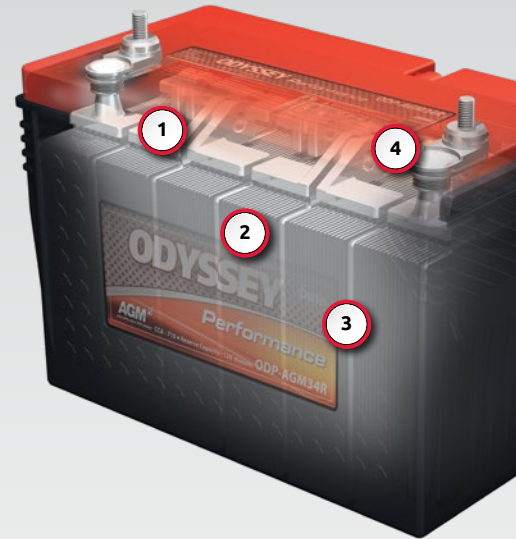


EXTREME TEMPERATURE TOLERANCE

From a freezing -40°F (-40°C) to a blistering 176°F (80°C).

ODYSSEY® Performance AGM² TPPL Batteries

- 1 Intercell Connections Designed for Power**
A large weld design helps deliver reliable performance, allowing for maximum plate height that creates superior energy storage.
- 2 Thin Plate Pure Lead (TPPL)**
Uniquely manufactured thin plates using 99% pure lead make them as strong as thick plates, allowing more plates in the same space, providing better recharge performance and more power.
- 3 Compressed AGM Plate Separators**
Provide extreme leak-free resistance to vibration up to V4 – even when the battery is installed on its side.
- 4 Lead Terminals**
Provide a reliable connection point for cable connections. (Some ODP models may come with brass terminals.)



ODYSSEY® Extreme AGM² TPPL Batteries

- 1 Robust Over-the-Wall Connections**
Up to 58% larger – these connections are cast and bonded to plates to resist vibration and ensure stronger internal connections.
- 2 Thin Plate Pure Lead (TPPL)**
Uniquely manufactured thin plates using 99% pure lead make them as strong as thick plates, allowing more plates in the same space, providing better recharge performance and more power.
- 3 Compressed AGM Plate Separators**
Provide extreme leak-free resistance to vibration up to V4 – even when the battery is installed on its side.
- 4 Upgraded Brass Terminals**
Ensure secure, corrosion free cable connections. (Brass terminals included on ODX and some ODP and ODS models; some models may have lead or tin-plated brass terminals.)



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