

Fleet Saver

ODYSSEY[®] Extreme SERIES™



Gas prices crisis? Stop idling, start saving!

With gas prices spiraling out of control, municipalities and utilities are faced with a critical decision: reduce the number of vehicles in their fleets (with potential safety and security risks), or instruct officers, EMTs and other personnel to shut engines off and draw power for critical auxiliary accessories from the battery.

The problem with the second option is that frequent deep discharges shorten the life of conventional starting, lighting and ignition (SLI) batteries. So gas savings are offset by the cost to replace them more frequently.

The answer is the revolutionary ODYSSEY[®] Extreme Series™ battery. Thanks to its unique design and massive deep cycling capability, this maintenance free, drycell design battery has the reserve power to run on-board accessories with the engine off – without shortening battery life.

How much can you save? That depends on the size of your fleet and the number of stops made daily with electrical loads on. One study indicates savings could be over \$72,000 for a 20-vehicle fleet, factoring in costs for gas, labor, ignition system parts and downtime.

See the example inside for more details.

Save \$3,600 or more
per vehicle, per year!
See potential savings
example inside!



www.odysseybattery.com

Powered by **EnerSys**[®]
Power/Full Solutions

Construction

- 99.99% pure lead plates for maximum surface area, optimized recycling
- AGM (absorbed glass mat) design eliminates acid spills
- High conductivity, corrosion-resistant tin-plated brass terminals
- High integrity terminal seal
- Sealed design — gases recycled internally during operation or charging
- Safety relief valve per cell
- Robust intercell connections prevents vibration damage



There's an ODYSSEY® Extreme Series™ battery for every vehicle in your fleet. For information, visit www.odysseybattery.com



Better warranty

Limited 4-year full replacement warranty – not pro rata.

Longer service life

With 3-10 years of service life, ODYSSEY® Extreme Series™ batteries save time, money and aggravation.

Longer cycle life

70% longer cycle life compared to conventional deep cycle batteries – up to 400 cycles at 80% depth of discharge – high stable voltage for longer periods of time.

Faster recharge

The highest recharge efficiency of any sealed lead battery on the market – capable of 90%[†] recharge in 35 minutes and 100%[†] recharge in 4-6 hours.

Totally maintenance free

No need to add water, ever! Drycell design with resealable venting system.

Reduce gasoline use – and greenhouse gases!

Depending on engine size, an idling vehicle can burn as much as three quarters of a gallon of gasoline in an hour. And produce up to 14 pounds of CO₂ in the same time period. One study indicates a reduction of 879 lbs. of CO₂ emissions per day for a 20-vehicle fleet. With up to 400 cycles at 80% depth of discharge, ODYSSEY® Extreme Series™ batteries eliminate the need to idle, saving fuel and helping to reduce greenhouse gases.

ODYSSEY® Extreme Series™ Battery Technology Comparison

	ODYSSEY® EXTREME SERIES™ BATTERIES	CONVENTIONAL BATTERIES
DESIGN LIFE	8-12 years (Float) @ 77°F (25°C)	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 @ 77°F (25°C)	6-12 weeks before needing charge
SHIPPING	Air transportable; classified as non-spillable in accordance with U.S. Department of Transportation (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)

See back side for technical data on recovery time, cycle life and run time.

[†] Assumes standard 200 amp alternator Ford® Crown Victoria®

Potential Cost Savings – ODYSSEY® Extreme Series™ Battery 65-PC1750 vs Conventional SLI Group 65

Comparison Item	Fleet Defined Variables	ODYSSEY® Extreme Series™ Battery 65-PC1750	Conventional SLI Group 65
Minutes before engine must be restarted at 72A		37	Conventional SLI Batteries are not well suited for no-idling applications due to limited reserve capacity cycling capabilities. No fuel savings exist.
Cost of gas per gallon*	\$4.00		
Gas consumption at idle, gallons per hour		0.75	
Gas savings due to engine being turned off		\$1.85	
Average number of stops per day per vehicle with electrical loads on*	5		
Average gas savings per day per vehicle with engine turned off		\$9.25	
Average gas savings per month per vehicle with engine turned off		\$277.50	
Number of vehicles in fleet*	20		
Number of batteries per vehicle*	1		
Average fleet gas savings per month when engine is not idled		\$5,550.00	
Average extra fleet gas savings per year due to use of 65-PC1750		\$66,600.00	
Battery price (ODYSSEY® Extreme Series™ Battery = Minimum Advertised Price)*		\$287.21	\$99.99
Battery service life, years*		6	3
Number of conventional batteries over life of one 65-PC1750		1	2
Purchase price of battery(ies) over lifetime of 65-PC1750		\$287.21	\$199.98
Labor cost, per hour*	\$65.00		
Time to install battery, hour*	0.5		
Total installation cost over life of one 65-PC1750		\$32.50	\$65.00
Number of 6-month maintenance checks over the life of one 65-PC1750		0	12
Hours per maintenance check*	0.75		
Cost of maintenance over life of one 65-PC1750		\$0.00	\$585.00
Total hours of vehicle downtime		0.5	1.0
Cost per hour incurred due to vehicle being down*	\$65.00		
Total cost for downed vehicle over life of one 65-PC1750		\$32.50	\$65.00
Cost of items replaced during maintenance check (cables, battery trays, etc.)*	\$45.00	\$0.00	\$45.00
Number of maintenance checks when items were replaced*	3	0	3
Total cost of items replaced over life of one 65-PC1750		\$0.00	\$135.00
Cost of ownership over lifetime of one 65-PC1750		\$352.21	\$1,049.98
Battery cost per year		\$58.70	\$349.99
Battery cost per year for the fleet		\$1,174.03	\$6,999.87
Average fleet battery and maintenance related cost savings per year for fleet with 65-PC1750		\$5,825.83	
Potential total cost saving (including gas) for fleet with 65-PC1750		\$72,425.83	
Greenhouse gas (CO₂) not emitted by fleet per day, lbs. **		879	

** Greenhouse gas (CO₂) emission data taken from <http://www.epa.gov/oms/climate/420f05001.htm#calculating>

The example above shows projected savings for a 20-vehicle fleet, using fleet-defined variables for fuel, labor, downtime and other costs. Below are the Potential Total Cost Savings Based on Fleet Size:

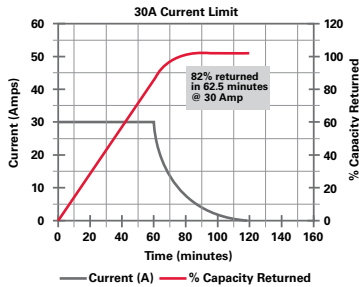
Fleet Size	10	20	30	40	50
Dollars	\$36,212.92	\$72,425.83	\$108,638.75	\$144,851.67	\$181,064.58



*To plug in your own numbers and see the potential savings for your fleet, visit www.odysseybattery.com

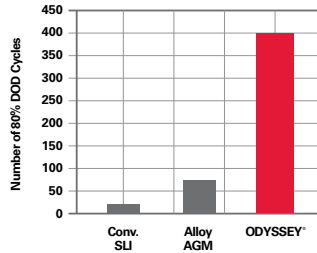
Fast Recovery

ODYSSEY® Extreme Series™ batteries recharge faster and more fully than conventional SLI (starting, lighting and ignition) Group 65 batteries.



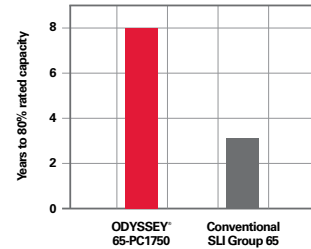
Long Cycle Life

ODYSSEY® Extreme Series™ batteries routinely deliver up to 400 deep cycle (80%) discharges.



Service Life

ODYSSEY® Extreme Series™ batteries have 50% more service life than conventional SLI Group 65 batteries.



WARRANTY:

EnerSys Energy Products Inc. ("Manufacturer") warrants its ODYSSEY® batteries (hereafter referred to as "Battery") to be free of defects in material and workmanship for the following Applicable Warranty Periods:

- 2 years for Auxiliary Power (APU) and other non engine start cycling applications.
- 2 years for power sports applications.
- 3 years for commercial, industrial, marine and automotive applications in non BCI sizes.
- 4 years for an engine starting application for PC1220, PC1350, PC2250 and all BCI sizes.

The warranty does not cover a Battery reaching its normal end of life which may occur prior to the warranty periods stated above. Depending on the application a Battery can reach its normal end of life before the end of the warranty period.

A Battery can deliver only a fixed number of usable amp-hours over its lifetime and is considered to have reached its normal end of life if the application uses up all of these amp-hours, regardless of the time the Battery has been in service. Therefore Manufacturer reserves the right to deny a warranty claim if it determines the Battery to be at its normal end of life, even if the claim is lodged within the applicable warranty period.

The Applicable Warranty Period begins from the date of purchase with original receipt, or, if no receipt is available, from Manufacturer's shipping date as stated on the battery. Batteries determined to meet the conditions of this warranty will be replaced free of charge if, at the sole discretion of Manufacturer, adjustment is necessary due to defect in material or workmanship. Batteries for warranty replacement consideration are to be returned to the original supplying distributor/dealer. If not feasible, other ODYSSEY® distributors/dealers can be approached but a warranty processing fee may be applied. This warranty may vary from country to country; contact your authorized ODYSSEY® Battery wholesaler or dealer for the applicable warranty.

Batteries replaced under the warranty provisions will be shipped with a yellow replacement warranty sticker and carry only the remainder of the original Applicable Warranty Period.

GENERAL PROVISIONS:

A. Manufacturer has no obligation under the limited warranty herein in the event the Battery is damaged or destroyed as a result of one or more of the following:

- Willful abuse, misuse, physical damage, neglect or if the top decorative cover has been removed.
- Natural forces such as wind, lightning, hail; damage due to fire, collision, explosion, vandalism, theft, penetration or opening of the Battery case in any manner.
- Overcharging, undercharging, charging or installing in reverse polarity, improper maintenance, allowing the Battery to be deeply discharged via a parasitic load or mishandling of the Battery such as but not limited to using the terminals for lifting or carrying the Battery. Trickle chargers that do not have a regulated trickle charge voltage between 13.5V and 13.8V (no lower than 13.5V and no higher than 13.8V) will cause early failure of the Battery. Use of such chargers with the Battery will also void the Battery's warranty. For applications where an alternator is present, the alternator must deliver between 14.0V and 14.7V when measured at the Battery's terminals. Alternators that do not have a regulated charge between 14.0V and 14.7V (no lower than 14.0V and no higher than 14.7V) will cause early failure of the Battery. Use of such alternators with the Battery will also void the Battery's warranty.

- Failure to properly install the Battery or lack of metal jacket for high temperature or vibration applications.
- Repair or attempted repair of the Battery by anyone other than an authorized Manufacturer's representative shall void this warranty.
- Normal or accelerated deterioration in the electrical qualities due to operating or application conditions.
- If the Battery is used for an application that requires higher cranking power or a greater reserve rating than the Battery is designed to deliver, or the Battery capacity is less than the Battery capacity specified by the vehicle manufacturer, or the Battery is otherwise used in applications for which it was not designed.
- Prolonged storage of vehicles with fuel injection computers, alarms, GPS and other electrical devices that require continuous battery power to support active memories; this power drain must be offset with a maintenance-float charger, periodic charging or disconnecting the Battery to prevent irreversible damage. A Battery with an open circuit voltage (OCV) of equal to or less than 8.0V will be deemed as over discharged and void warranty due to misuse and/or neglect.

WARNING - DO NOT USE ANY TYPE OF OIL, ORGANIC SOLVENT, ALCOHOL, DETERGENT, STRONG ACIDS, STRONG ALKALIS, PETROLEUM-BASED SOLVENT OR AMMONIA SOLUTION TO CLEAN THE BATTERY COVERS AND BATTERY TOPS. THESE MATERIALS MAY CAUSE PERMANENT DAMAGE TO THE BATTERY COVERS BATTERY TOPS AND WILL VOID THE WARRANTY.

B. To obtain warranty service:

1. Return the Battery to the original supplying wholesaler or dealer.
2. If the Battery is determined by Manufacturer, in its sole discretion, to be defective for material or workmanship under terms of this limited warranty, it will be replaced.
3. Manufacturer's acceptance of any items shipped to Manufacturer shall not be deemed an admission that the items so shipped are defective. Any items shipped back to Manufacturer, shall in Manufacturer's sole discretion, become Manufacturer's property.

THIS LIMITED WARRANTY IS IN LIEU OF, AND MANUFACTURER DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, STATUTORY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. MANUFACTURER'S EXCLUSIVE LIABILITY FOR BREACH OF WARRANTY SHALL BE TO REPLACE THE BATTERY WITHIN THE EFFECTIVE WARRANTY PERIOD. IN NO EVENT SHALL MANUFACTURER BE LIABLE FOR ANY LOSS OR DAMAGES OF ANY OTHER KIND, WHETHER DIRECT, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY, SPECIAL OR OTHERWISE. NOR SHALL MANUFACTURER BE LIABLE FOR ANY REMOVAL OR INSTALLATION EXPENSE, OR THE LOSS OF TIME OR PROFITS.

Some countries and/or states do not allow limitation on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, which may vary from country to country and/or state to state. This warranty shall be governed by and interpreted in accordance with the laws of the Commonwealth of Pennsylvania without regard to Pennsylvania conflicts of laws rules. The United Nations Convention on Contracts for the International Sale of Goods signed in Vienna in 1980 shall not apply to this warranty. This warranty is understood to be the exclusive agreement between the parties relating to the subject matter hereof. No employee or representative of Manufacturer is authorized to make any warranty in addition to those made in this agreement.



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