

ODYSSEY
THE EXTREME BATTERY

The Dawn of a New Era in Engine Start Batteries



EnerSys
Power/Full Solutions™



Technology for Multiple Markets



Defense



Aviation



Cable Power Reliability



Medical



Microturbine



GPS



Engine Start

HEV



Telecommunications



UPS



Top 10 Reasons to Buy ODYSSEY™ Batteries

- 1.) Guaranteed longer service life
- 2.) Longer storage life
- 3.) Deep discharge recovery
- 4.) Superior cranking and fast charge capability
- 5.) Easy shipping
- 6.) Mounting flexibility
- 7.) Superior shock and vibration resistance
- 8.) Ready out of the box
- 9.) No catastrophic failure
- 10.) Industry's best warranty

The World's Exclusive Pure-lead Flat Plate AGM Military Based Battery Product Line



One of only two factories globally, both owned by EnerSys
to produce flat-plate pure-lead tin batteries



470 employees, 360,000 sq. ft., 33 acres, 20,000 batteries per day



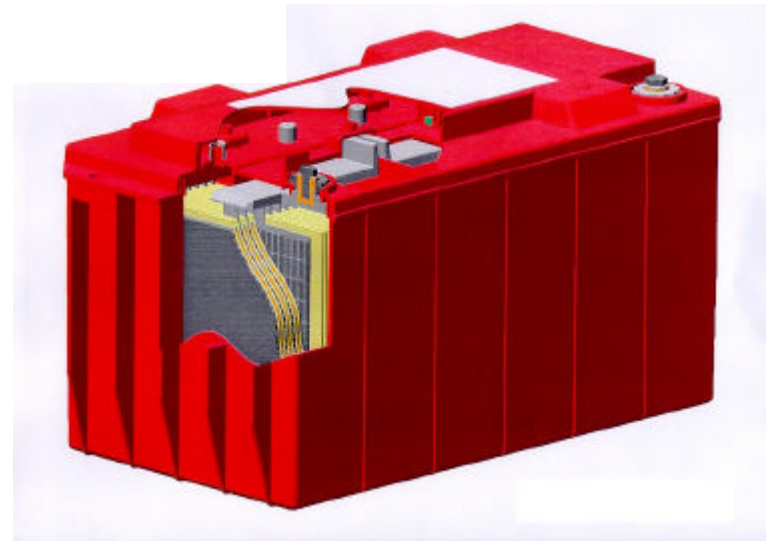
- Exclusive 8-12 year design life, military grade technology with service life of 6-10 years
- Internally mechanically indestructible due to vibration, shock, impact.
- Solid brass universal terminals - high current conductive, non-corrosive, SAE & 3/8 bolt
- Steel jacket to protect plastic case and for extreme high heat conditions
- Same power in smaller and lighter package
- Can be mounted inside passenger compartments
- Can be mounted in any position
- Extreme high starting power and deep cycle
- Nonspillable for safe UPS and air shipments
- 2 year shelf life to 50% charge at 77°F
- Fast chargeable with 14.7V and no limit on the current

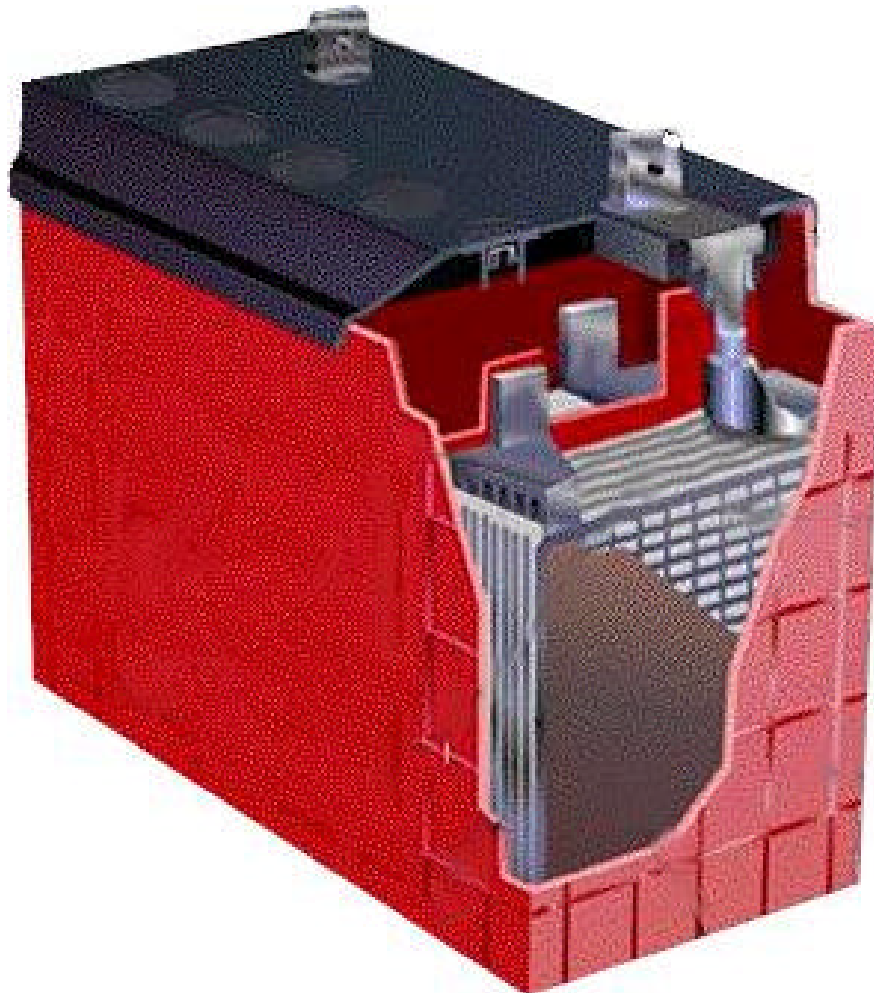
- ☑ Pure virgin lead not corrosive in sulfuric acid
- ☑ Grids can be made extremely thin
- ☑ Thin grids allow more plates per cell
- ☑ More plates = more plate surface area
- ☑ More surface area for chemical reaction
- ☑ Result - 40% greater pulse discharge power, especially for first 5 seconds



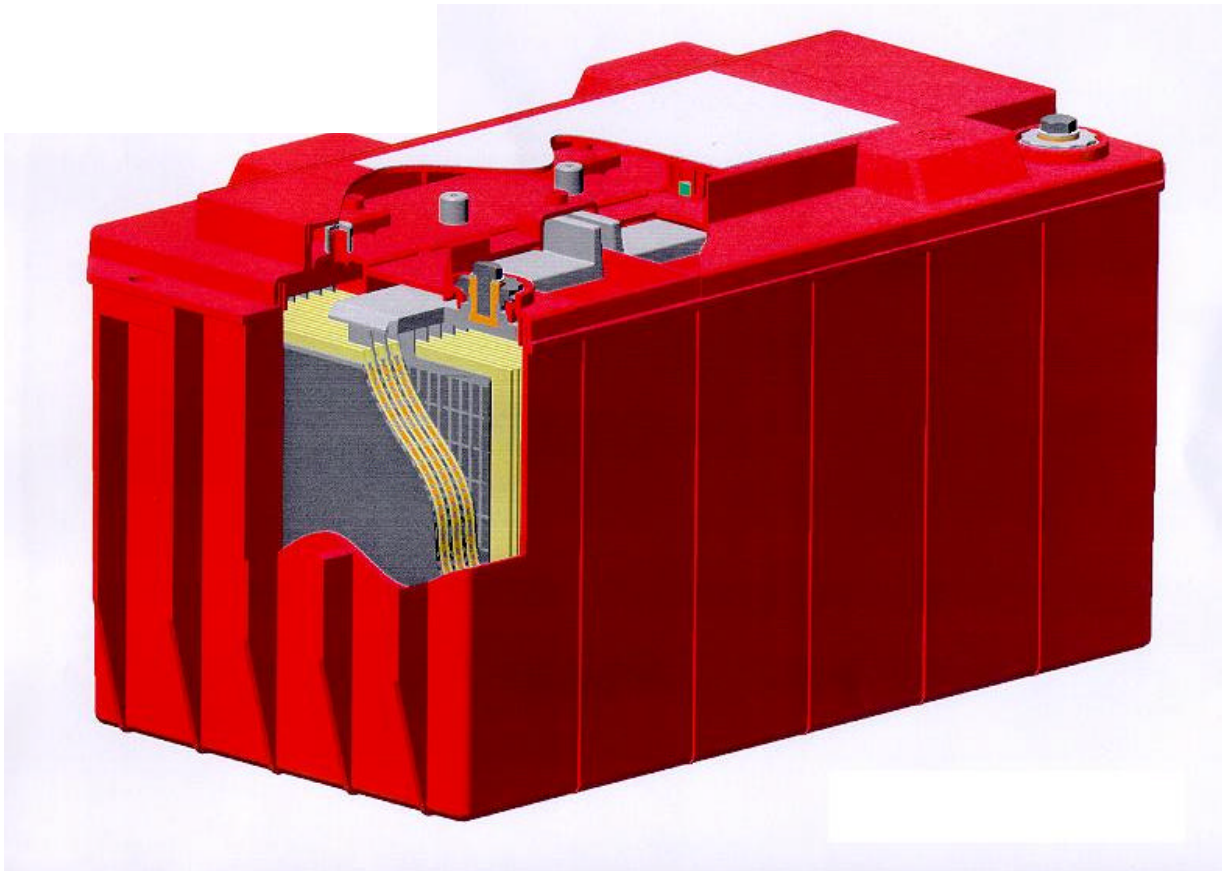
What is ODYSSEY® Drycell Technology?

- ☑ Worlds only pulse power and true deep cycle - all in one battery
 - ⇒ 40% more 5 second cranking amps
 - ⇒ 400 cycles to 80% depth of discharge
- ☑ High pressure valve regulated design, explosion resistant and safe for mounting in passenger compartment
- ☑ Batteries are certified by USDOT and IATA as non-hazardous, nonspillable for shipment by UPS or air transport
- ☑ Exclusive pure-lead design (not gel) offers performance capabilities not available from conventional batteries





- **Massive head space**
 - Explosion's
- **Thru-wall connections**
 - Corrode = catastrophic failure
 - Corrosion = internal spark
 - Limited power delivery
 - Small cross sectional area
- **Limited internal terminal mass**
 - Limits power delivery
- **Lead-alloy**
 - Grids corrode, limits life
 - Requires thick grids
- **Low pressure case design**
 - Polypropylene plastic
 - AGM periodically vents



- **No head space**
(explosion resistant)
- **Welded over wall connectors for larger sizes**
(no internal sparking)
- **Glued cover & encapsulated connectors**
(vibration resistance)
- **92% saturated separator**
(drycell - non-hazardous)
- **Direct casted terminal w/ mechanical compressed terminal seal**
(no leakage terminals)
- **Untapped power - Shrt Cir**
(high cranking voltage)

PC1500DT Series Competitive Comparison

<u>Comparison Item</u>	<u>ODYSSEY PC1500DT Grp 34/78 Eng Srt/Deep Cyc</u>	<u>OPTIMA Yellow Top D34/78 Eng Srt/Deep Cyc</u>
• 5 second HCA	1,500 amps	not published
• CCA	825 amps	750 amps
• Reserve Capacity	125 minutes	120 minutes
• Amp Hr. @ 20 Hrs.	65 Ah	55 Ah
• Construction	Pure-lead tin Sealed AGM	High purity lead Sealed AGM
• Maintenance	No term. corr.	No term. corr
• Operational Weight	53 lbs.	43.5 lbs.
• Short Circuit	3,100 amps	not published
• Cranking Amps @ 32 F	1,050 amps	870 amps
• Design Life	12 yrs.	8 yrs.
• Service Life	6-10 yrs.	3-5 yrs. (estimated)



ODYSSEY
THE EXTREME BATTERY

PC1700 & PC1700/65

EnerSys
Power/Full Solutions™

Incredible starting power of 1,700 amps, combined with true deep cycle for 4x4's with big winches, all at 61 pounds. The ultimate 4x4 truck or special HD vehicle battery.

5 second HCA: 1700 amps
CCA: 875 amps
Reserve capacity: 142 minutes
Weight: 61 pounds



PC1700 & PC1700/65

Mount in any position in any location

ODYSSEY
THE EXTREME BATTERY

PC2150

EnerSys
Power/Full Solutions™



Direct replacement for
BCI Group 31

5 second HCA: 2150 amps
CCA: 1090 amps
Reserve capacity: 200 minutes
Weight: 75.0 pounds

PC2150 Series Competitive Comparison

<u>Comparison Item</u>	<u>ODYSSEY PC2150 Grp 31 Eng Srt/Deep Cyc</u>	<u>OPTIMA Yellow Top D31 Eng Srt/Deep Cyc</u>
• 5 second HCA	2,150 amps	not published
• CCA	1,090 amps	900 amps
• Reserve Capacity	200 minutes	155 minutes
• Amp Hr. @ 20 Hrs.	100 Ah	75 Ah
• Construction	Pure-lead tin Sealed AGM	High purity lead Sealed AGM
• Maintenance	No term. corr.	No term. corr
• Operational Weight	75 lbs.	60 lbs.
• Short Circuit	5,000 amps	not published
• Starting Power @-4°F	1082 amps	810 amps
• Design Life	12 yrs.	8 yrs.
• Service Life	6-10 yrs.	3-5 yrs. (estimated)



ODYSSEY
THE EXTREME BATTERY

PC2250

EnerSys
Power/Full Solutions™



5 second HCA: 2250 amps

CCA: 1225 amps

Reserve capacity: 240 minutes

Weight: 86.0 pounds

ODYSSEY
THE EXTREME BATTERY



*The Battery of the Future
Here Today!*

