



**Trojan**<sup>®</sup>  
BATTERY COMPANY



**OVERDRIVE™ AGM 31**  
*REAL POWER. REAL REWARDS.*



# TROJAN – THE LEADER IN DEEP CYCLE BATTERIES

Backed by 85 years of technological excellence, Trojan Battery Company is the world's leading manufacturer of advanced deep cycle battery technology. With the on-going implementation of anti-idling regulations across the United States and the development of profit-making engine-off, heating, ventilating and air conditioning (HVAC) system, Trojan understands the need for a true cycling battery in the heavy duty/commercial truck industry.

Introducing Trojan's **OverDrive™ AGM 31**, an Absorbed Glass Mat (AGM) battery designed specifically for cycling\* truck applications.



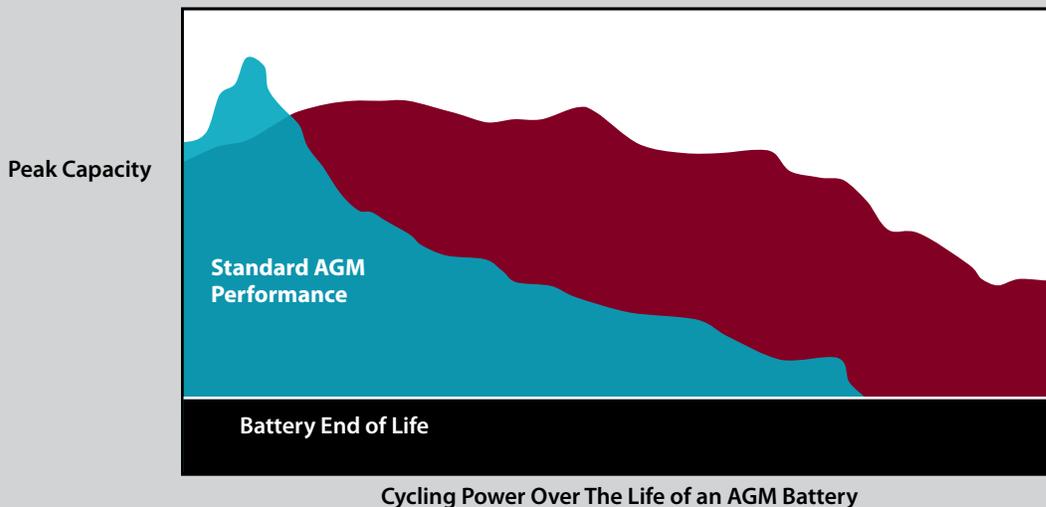
\* Not for starting applications

## YOU NEED REAL POWER.

Not all AGM batteries are designed for heavy duty cycling/deep discharge applications. Most standard AGM battery technology is either for starting or dual-purpose applications—with the main task of providing maximum cranking power or only light to medium cycling performance. Trojan's OverDrive™ AGM 31 is not designed for starting applications.

The **OverDrive™ AGM 31 is a true cycling battery** built on proprietary and proven deep cycle technology. Our robust AGM plate design delivers real power that performs steadily hour after hour, day after day, outperforming both conventional lead acid batteries and standard AGM batteries (see Chart A).

**Chart A: Peak Capacity & Cycle Life:  
Trojan OverDrive™ AGM 31 vs. Standard Competitor AGM Products**



Cycling Power Over The Life of an AGM Battery



## YOU WANT REAL REWARDS.

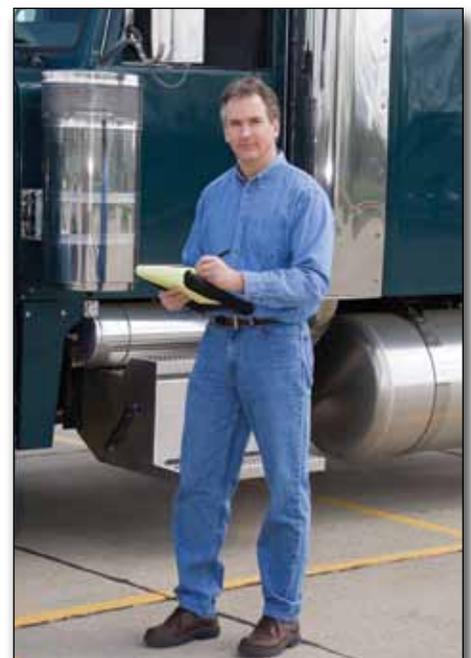
There are **real rewards** with not allowing your truck to idle—including **fuel cost savings, noise reduction and lower emissions**. Powering an engine-off, HVAC system, Trojan's OverDrive™ AGM 31 delivers all these rewards, plus the benefits of:

- **Maintenance free convenience** with no watering required plus increased safety with no acid spills
- **Excellent recharge efficiency** while you drive
- **Superior vibration resistance** over standard conventional lead acid batteries
- **Increased battery protection** in heavy truck applications with our durable polypropylene case
- **Easy lifting and installation** into truck compartments with removable carrying handles
- **Added safety** with our flame arrestor pressure vent

**With Trojan's OverDrive™ AGM 31 battery, you can now have clean, steady reserve power for climate control when your engine is turned off.**

OverDrive™ AGM 31 Specifications			
Voltage	12 Volt		
Capacity Rating	102 AH @20 Hours 180 Minutes @25 Amps		
Cranking Amps	600 C.C.A. @ 0°F 720 C.A. @ 32°F (Cycling battery, not for starting)		
Power Delivery	110 Watts – average for 10 hours		
Terminal	Steel Stud		
Weight	69 lbs. (31 kg)		
Dimensions Inches (mm)	Length	Width	Height
	13 3/7 (341)	6 4/5 (173)	9 2/9 (234)
Warranty**	30 Months (18 month full/12 month pro-rata)		

\*\*See Trojan's OverDrive™ warranty statement for full details at [www.trojanbattery.com/OverDrive](http://www.trojanbattery.com/OverDrive)



# OVERDRIVE™ AGM 31

## PRODUCT SPECIFICATION GUIDE

BCI GROUP SIZE	TYPE	VOLTAGE	CAPACITY <sup>A</sup> Minutes		CRANKING PERFORMANCE		CAPACITY <sup>B</sup> Amp-Hours (AH)		TERMINAL TYPE (See Below)	DIMENSIONS <sup>C</sup> Inches (mm)			WEIGHT lbs. (kg)
			@25 Amps	@75 Amps	CCA <sup>D</sup> @0°F	CA <sup>E</sup> @32°F	5 Hr Rate	20 Hr Rate		L	W	H <sup>F</sup>	
<b>CYCLING AGM BATTERIES</b>													
31	OverDrive™ AGM 31	12 Volt	180	-	600	720	84	102	7	13 3/7 (341)	6 4/5 (173)	9 2/9 (234)	69 (31)

- A. The number of minutes a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
- B. The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 80°F (27°C) for the 20-Hour and 100-Hour rates and 86°F (30°C) for the 5-Hour rate and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
- C. Dimensions are based on maximum size and are for reference only. Dimensions may vary depending on type of handle or terminal. Batteries to be mounted with .5 inches (12.7mm) spacing minimum.
- D. Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.



Stud Terminal

## ELECTRIC POWER MAKES FINANCIAL SENSE

With record high gas prices and nationwide restrictions on diesel engine idling, HVAC systems make financial sense. But saving money isn't enough. What do fleets and individual truck owners really want? They both want to make a profit.

### How quickly can you make a profit?

To determine how quickly you can start to earn a profit on your initial investment (an electric HVAC system installed with Trojan's OverDrive™ AGM 31 batteries), you will need to know:

1. Your estimated annual diesel fuel cost per gallon.
2. The number of hours your average truck idles per day.
3. The number of days per week your average truck is in operation.
4. The number of weeks your average truck operates per year.
5. Cost of the selected electric HVAC system.

With an average pay back period of 12 – 18 months on an electric HVAC, making a profit just got easier. Let Trojan's OverDrive™ AGM 31 provide you Real Power and Real Rewards.

Try your own numbers into Trojan's Real Rewards Calculator to find out your return on initial investment and potential profits at [www.trojanbattery.com/RealRewards](http://www.trojanbattery.com/RealRewards).

### Real Rewards Calculator with sample numbers

Input Information	Description
\$2.75	Diesel Fuel Cost per Gallon
1.0	Gallons per Hour used Idling
10	Hours Idling per Day
5	Days Operating per Week
40	Weeks Operating per Year
2,000	Total Hours Spent Idling per Year
\$5,500	Annual Cost of Idling Truck
\$6,000	Average Cost of an electric HVAC System
13	Payback Time in Months
\$5,500	Potential Profits After Initial Investment Pay Back/Per Year*

- \* Real Rewards Calculator does not take into account:
- 1) Preventative Maintenance Costs.
  - 2) Overhaul Costs.
  - 3) Battery Replacement.
  - 4) Operating Costs for Idling Technology



Trojan batteries are available worldwide through Trojan's Master Distributor Network. We offer outstanding technical support, provided by full-time application engineers.

**For a Trojan Master Distributor near you,  
call 800.423.6569 or + 1.562.236.3000 or visit [www.trojanbattery.com](http://www.trojanbattery.com)**