



The Oasis Group 31 AGM battery is the only battery utilizing patented Microcell Carbon Foam technology.

- **Unparalleled Resistance to Sulfation** –Sulfation is what usually kills AGM batteries. The Oasis Carbon-Foam AGM can operate or be stored at a partial state of charge for long periods of time without a loss in capacity
- **Depth Of Discharge (DOD) to 80-100%** of rated capacity without any loss of performance
- **Superior Life Cycle** - capable of 3X the number of deep discharge cycles than that of other lead acid batteries
- **Strong Performance in Extreme Cold and Heat**- performance range is -20° C to 50° C
- **Fast Bulk Charging** - and topping up is seldom required
- **Greater Usable Capacity**- replace your existing bank with a smaller Oasis bank due to the superior deep discharge capability
- **Improved case, vents, & terminals**- with upgraded manufacturing tools at the Illinois production facility

Oasis FF12D1-G31 Specifications					
Nominal Voltage	12V		Max Charge V	14.4V	
Charge Current	Max 250A @25°C		Reserve Capacity	@25A	@75A
				225 min	57min
Designed Cycle Life	50%	~3600	Instantaneous P: CA/CCA	800/600	
	80%	~1000		IR	3.8mΩ
Operating Temperature	-20°C to 50°C (-4°F to 104°F)		Dimensions	13.4" x 9.4" x 6.7"	
			Weight	75lbs	
Nominal Capacity	5hr		10hr	20hr	
	20.2A (101Ah)		11A (110Ah)	5.8A (116Ah)	

Price: \$486

SOLUTIONS
 www.brjsolutions.com
 206-708-5157 info@brjsolutions.com

Why Firefly Oasis...

Why don't my batteries last as long as they should?

Internal irreversible sulfation is what usually kills Pb batteries (AGM, gel, and flooded are all Pb/lead batteries), often long before their rated "cycle life" is reached. You may have already experienced a disappointing lifespan from your batteries, which was nowhere near the claimed lifetime cycles on the advertised specifications.

What causes sulfation on Pb (AGM, gel, and flooded) batteries?

Permanent, irreversible sulfation is a result of chronic undercharging, and/or using the batteries in a partial state of charge (PSOC) for long periods. A long, slow top-up charge is a Pb battery's best friend, helping to keep the internal lead plates free of damaging sulfate crystals. Periodic "equalization" can boil off some of the sulfate crystals; however some become stuck or break off taking some of the lead plate with them. Thus equalization itself can shorten battery life. For the lucky cruisers that can meet all of their energy needs with renewable power (solar, hydro, and/or wind power) then their batteries may very well be getting the frequent topping up they need.

Why can't I quickly recharge with my engine alternator?

Unfortunately, the reality of marine battery use is that frequent charging to 100% SOC (State Of Charge) is impractical if diesel fuel is the primary energy source. This is because the charge acceptance rate (CAR) of all PB batteries is very slow for final 15-20% of the charging cycle, so that long engine or generator run times under low charging loads are required. This is bad for diesel engines, not to mention very inefficient fuel-wise. If you only needed to charge to about 80% SOC then recharging with diesel would be faster and more efficient. From approximately 20% to 80% SOC is the Pb battery charging "sweet spot".

So, what is different about the Firefly Oasis AGM battery?

The Oasis uses a patented microcellular carbon foam grid imbedded onto the internal negative plates. This grid prevents large sulfate crystals from forming, thus the sulfate will easily dissolve back into the electrolyte with a full charge. For a full capacity recovery, no "equalization" is required with Oasis. Only do a full recharge as needed to "open up" the full capacity once again. There is no permanent damage or capacity loss from extended PSOC operation, or from deep discharging to a low SOC.