firefly energy

THE POWER OF CARBON FOAM

FIREFLY OASIS MCF G31M



PREMIUM DUAL-PURPOSE TRUCK BATTERY

DUAL PURPOSE. ONE BATTERY.
STARTING POWER + AUXILIARY POWER

START THE TRUCK.
POWER THE SLEEPER.
REDUCE DOWNTIME.

Built with advanced Microcell™ Carbon Foam technology, Firefly OASIS MCF G31M delivers the perfect balance of starting power and deep-cycle performance for today's long-haul trucks. Engineered to handle heavy auxiliary loads while reliably starting your engine—every time.

KEY BENEFITS

DUAL-PURPOSE PERFORMANCE
Delivers strong starting power and reliable auxiliary power in one battery.

DEEP-CYCLE DURABILITY
Built for repeated cycling and demanding mixed-duty applications.

BUILT TO LAST
Resists sulfation, vibration, heat, and demanding conditions for longer service life.

REDUCE DOWNTIME
Faster recharge and better reliability help keep your fleet moving and your business on schedule.

WORKS IN HOT & COLD CONDITIONS
Reliable performance in extreme temperatures.

IDEAL FOR

- LONG-HAUL TRUCKS
- SLEEPER CABS
- DELIVERY & VOCATIONAL FLEETS
- BUSES
- APU-EQUIPPED TRUCKS
- AUXILIARY-LOAD INTENSIVE VEHICLES

RELIABLE POWER.
BETTER PERFORMANCE.

Firefly OASIS MCF G31M – engineered for the real demands of long-haul trucking.
Start strong. Power the sleeper. Reduce downtime.

12V G31M BATTERY

(VRLA AGM GEL)

OASIS™

Partial state of charge cycling Efficiency	Ampere-hour >97% & watt hour >90%
Nominal Voltage	12V
Maximum charge voltage	14.10V
Maximum charge current	0.5C Amps for continuous charge
	1C Amps can be tolerated for Sporadic sessions.
Internal resistance	5.0 mΩ
Shelf life@25°C(77°F)	2 years
Self- Discharge	<2% per Month @ 25°C
CCA	630 Amps
Reserve Capacity	215 min

Temperature	Low	High
Operation	-20°C/-4°F	50°C/122°F
Storage	-30°C/-22°F	60°C/140°F

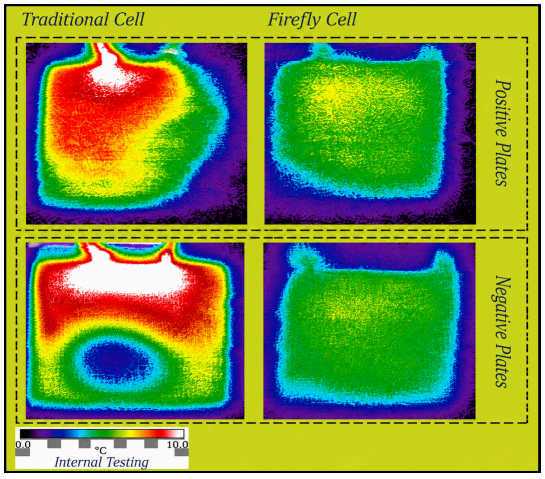
Weights & Dimensions	
Length	14.00in/356mm
Width	6.8in/171mm
Height	8.6in/218 mm
Weight	69.5lbs/31.5kgs
Volume	807Cu.in/12.3liters
Construction	
Terminal configuration	3/8 “-16 UNC
Case/Cover	ABS
Racks	Available upon request

Discharge Rates to 1.75V Per Cell*			
Hours	Amps	Ah	Kwh
0.25	155	38.8	0.47
1	63	63	0.76
3	26.7	80	0.96
5	17.4	87	1.04
10	10	100	1.2
20	5.25	105	1.26

Battery Life *	
DOD(%)	Cycles
30	7500-11250
50	3000-3500
65	1500-2000
80	850-1100
100	500-700
*All above are at 25°C/77°F	

International Compliance
ISO 9001:2015
IS 15549:2005
IEC 60896 -21/22 :2004
IEC 62040 - 1/2
IEC 61427
IEC 60095
IEC 61056
UL 1778 / 1973 / 1978

Charge Temperature CompensationCharge Temperature Compensation					
Operating Temperature	°C	-20	25	40	55
	°F	-4	77	104	131
Absorption Charge Voltage	v	15.3	14.1	13.8	13.5



Infrared thermal images snapped at the end of a 5C (12 minute) discharge of both a Firefly 3D cell and a Traditional cell.

More uniform temperature distribution, as the Carbon Foam is thermally conductive, results in

- Uniform current density distribution.
- Higher overall active material utilization.
- Less localized positive grid corrosion.
- Less localized positive active material wear out.

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