



firefly[®]
international
energy

OASIS[™]

POWERING THE FUTURE

2V 720 Ah / 2V 1200 Ah BATTERY

(VRLA AGM GEL)

Developed by scientists at Firefly Energy, Microcell™ Carbon Foam is a material that's revolutionizing the battery industry. Compared to lead plates – one of the main components of all lead acid batteries, carbon foam delivers longer service life, increased energy efficiency and better performance under extreme conditions. That's why we used it to create our revolutionary Firefly MCF battery.

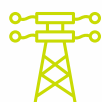
Firefly carbon foam design resists sulfation and corrosion (two of the primary causes of failure in lead-acid batteries), while dramatically increasing the surface area within the battery, resulting in greater energy capacity, faster recharges, and deeper discharge capability.

SALIENT FEATURES

- ▶ Sealed-requires no maintenance
- ▶ More than 3-4 times cycle life compared to normal VRLA batteries.
- ▶ Lower cost per kWh delivered compared to premium VRLA batteries.
- ▶ Unmatched ability to recover from extended storage in discharged state.
- ▶ Throughput efficiency greater than 90%.
- ▶ Improved high/low temperature performance.
- ▶ Superior protection against corrosion and sulfation related problems.
- ▶ Available with Battery Energy Management System (BEMS).
- ▶ Lowest Cost of ownership
- ▶ Industry leading warranty.
- ▶ Compatible with existing lead acid battery recycling infrastructure.
- ▶ Outstanding long life even under partial state of charge operation.



**PV SOLAR / WIND /
HYBRID GENERATORS**



LOAD LEVELLING



**MICRO GRID
APPLICATIONS**



**DEMAND
REDUCTION**



**LOAD SHIFTING
APPLICATION**

2V 720 Ah / 2V 1200 Ah BATTERY OASIS™

(VRLA AGM GEL)

Discharge rate to 1.75V per cell*

Models		Hours				
		8	10	20	24	100
2V 720 Ah	Amps	72.5	62.5	35	30	7.42
	Ah	600	655	720	738	760
	kWh	1.2	1.31	1.44	1.476	1.52
2V 1200 Ah	Amps	125	105	60	51.25	12.72
	Ah	1000	1050	1200	1230	1270
	kWh	2	2.1	2.4	2.46	2.54

	2 V 720 Ah	2V 1200 Ah
Partial state of charge cycling Efficiency	Ampere-hour >97% & Watt-hour > 90 %	
Nominal Voltage	2V	2V
Maximum charge voltage	2.40V	2.40V
Maximum charge current	200 A	400 A
Shelf life@25°C(77°F)	2 years	
Self- Discharge	<2% per Month	

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

Battery Life *

DOD (%)	Cycles
30	9000
50	3600
65	1800
80	1000
100	600

*All above are at 25°C / 77°F

Weights & Dimensions

	2 V 720 Ah	2V 1200 Ah
Length	7.95 in/201.5 mm	7.95 in/201.5 mm
Width	5.4 in/137 mm	9.05 in/230 mm
Height	18.95 in/482 mm	18.95 in/482 mm
Weight	70.76 lbs/32.1 kgs	117.06 lbs/53.1 kgs
Volume	813.5 cu.in/13.1 liters	1363 cu.in/22.3 liters

Construction

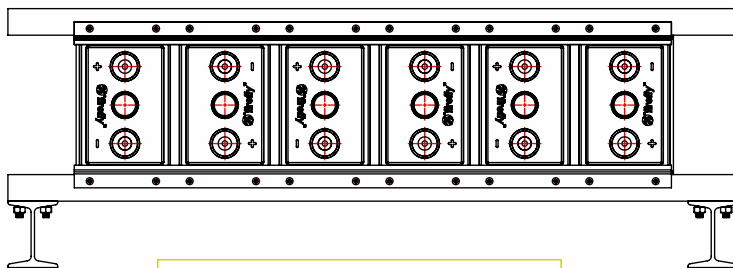
Terminal configuration	3/8 "-16 UNC	3/8 "-16 UNC
Case/Cover	PPCP	PPCP
Modules	12V basic building Modules along with BEMS	8V basic Building Modules with BEMS

International Compliance

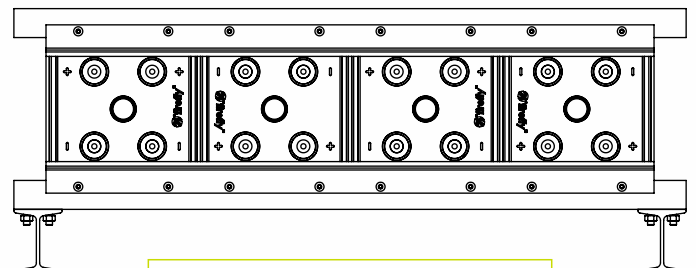
- IEC 60896 -21/22 :2004
- IEC 61427
- IS 15549:2005
- ISO 9001:2008

Charge Temperature Compensation

Operating Temperature	°C	-20	-5	10	25	40	55
	°F	-4	23	50	77	104	131
Absorption Charge Voltage	V	15.6	2.5	2.45	2.4	2.35	2.33



12V 720 Ah
(1100 (L) x 600(D) x 300(H))
Dimensions in mm**



8V 1200 Ah
(1045 (L) x 600(D) x 315(H))
Dimensions in mm**

**Custom made racks are also available

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