



# Azimuth Solar Products Inc.

## Carbon Foam 12V 116Ah Battery

BCF12116



### Specifications

### 12V 116Ah Carbon Foam Battery

Battery Type	VRLA AGM Gel with Microcell Carbon Foam
Nominal Capacity	116 Ah (1.39 kWh) @ 20 Hour
Nominal Voltage	12V
Max Charge Current	250A
Max Charge Voltage	14.4V
Internal Resistance	3.8 mΩ
Depth of Discharge	100% DOD
Partial State of Charge Cycling Efficiency	Ah: >97%; Wh: >90%
Operational Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-30°C to 50°C (-22°F to 122°F)
Shelf Life @25°C (77°F)	2 Years
Self Discharge	< 3% per Month
Life Cycle	3900 Cycles at 50% DOD; 1150 Cycles at 80% DOD
Reserve Capacity	225 min @ 25A; 57 min @ 75A
Cold Cranking Amps	720 Amps
Dimensions	34 x 23.8 x 17.2 cm (13.4 x 9.4 x 6.8")
Weight	33.5 kg (74 lbs)
Terminal Configuration	3/8 - 16 UNC
Case/Cover	PPCP
International Compliance	IEC 60896 - 21/22:2004; IEC 61427; IS 15549:2005; ISO 9001:2008; IEC 60095
Manufacturer	Firefly International Energy Co.
Warranty	6 Years Renewable Energy (Solar, Wind, Etc.) or RV/Marine; 3 Years Engine Starting or Over the Road Truck Hotel/Night Loads

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### DISCHARGE RATES TO 1.75 PER CELL (25°C/77°F)

Hours	Amps	Amp-Hours	Kilowatt-Hours
0.25	180	45	0.54
1	68	68	0.82
3	29.3	87.9	1.05
5	19.2	96	1.15
10	11	110	1.32
20	5.8	116	1.39

### BATTERY LIFE CHARGE CYCLES (25°C/77°F)

Depth of Discharge	30%	50%	65%	80%	100%
Cycles	9000-13500	3600-4200	1800-2400	1000-1300	600-800

### CHARGE TEMPERATURE COMPENSATION

Operating Temperature	-20°C / -4°F	25°C / 77°F	40°C / 104°F	50°C / 131°F
Absorption Charge Voltage (V)	15.6	14.4	14.1	13.98

### CELL TEMPERATURE DISTRIBUTION

