



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

