

EMERGENCY
LIGHT
SYSTEM



FIRE &
SECURITY
SYSTEM



CAR & OTHER
STARTING
APPLICATIONS



ELECTRO-
MEDICAL
DEVICES



UPS



RAILWAY
SIGNAL



COMMUNICATIONS
POWER SUPPLY



DC POWER
SUPPLY

BCN(G)-2V100



Application

Emergency Light Systems
Fire & Security System
Cars & other Starting Applications
Medical Equipment
Uninterruptible Power Supply(UPS)
Railway signal
Communication Power Supply
DC Power Supply

BATTERY BCN G2V100AH Sealed Lead Acid Maintenance Free

Specifications

Nominal Voltage		2V
Rated Capacity (10 hour rate)		100Ah
Dimensions	Total Height (with terminals)	8.27 inches (210mm)
	Height	8.07 inches (205mm)
	Length	6.73 inches (171mm)
	Width	2.83 inches (72mm)
Weight		Approx. 12.98 Pound(5.9kg)

Characteristics

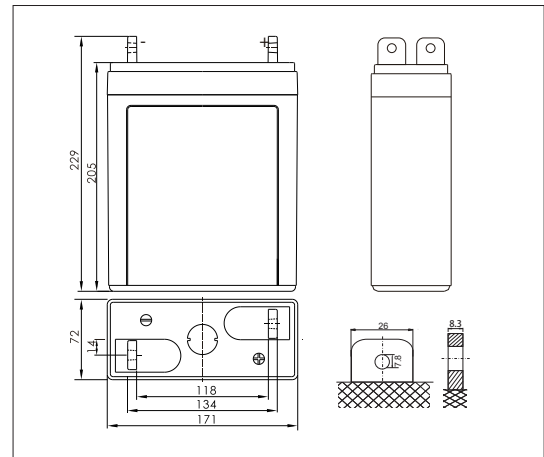
Capacity 77°F(25°C)	10 hour rate (10A)	100Ah
	5 hour rate (17A)	85Ah
	1 hour rate (55A)	55Ah
Internal Resistance	Full Charged Battery 77°F(25°C)	1.1m Ω
Capacity Affected by Temperature (20hour rate)	104°F(40°C)	102%
	77°F(25°C)	100%
	32°F(0°C)	85%
	5°F(-15°C)	65%
Self-Discharge 77°F(25°C)	Capacity after 3 months storage	91%
	Capacity after 6 months storage	81%
	Capacity after 12 months storage	60%
Max. Discharge Current 77°F(25°C)	800A(5S)	
Terminal	B2	
Charge (Constant Voltage)	Cycle	Initial Charging Current Less than 20A Voltage 2.35 V / 77 °F (25 °C) Equalization temperature compensation coefficient: -4mV / C
	Float	Voltage 2.25 V / 77 °F (25 °C) Compensation coefficient of floating charging temperature: -3mV / C

Constant Current Discharge (Amperes @25°C)

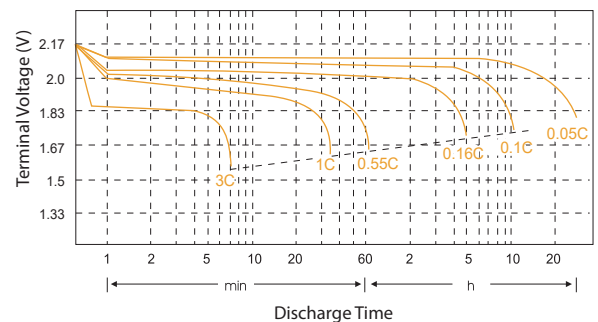
F.V/Time	10Min	15Min	30Min	1Hour	3Hour	5Hour	10Hour	20Hour
1.60	185	150	108	58.3	25.9	18.9	10.8	5.71
1.65	178	145	104	56.1	25.8	18.8	10.7	5.66
1.70	168	138	94.3	55.7	25.7	18.6	10.5	5.56
1.75	148	130	83.2	55.0	25.5	17.7	10.4	5.51
1.80	142	125	80.0	53.1	25.0	17.0	10.0	5.50
1.85	116	109	73.6	48.9	24.5	16.4	9.62	5.09

Constant Power Discharge (Watts Per Cell@25°C)

F.V/Time	10Min	15Min	30Min	1Hour	3Hour	5Hour	10Hour	20Hour
1.60	352	285	205	111	50.5	35.9	20.4	10.8
1.65	338	276	198	107	50.3	35.7	20.4	10.8
1.70	319	262	179	106	50.1	35.3	20.2	10.6
1.75	281	247	158	105	49.7	33.6	20.0	10.5
1.80	270	238	152	101	48.8	32.3	19.5	10.5
1.85	220	207	140	92.9	47.8	31.2	19.0	9.67



Discharge Curves 77°F(25°C)



Relationship Between Charge Voltage and Temperature

