

EMERGENCY
LIGHT
SYSTEM



FIRE &
SECURITY
SYSTEM



CAR & OTHER
STARTING
APPLICATIONS



ELECTRO-
MEDICAL
DEVICES



UPS



RAILWAY
SIGNAL



COMMUNICATIONS
POWER SUPPLY



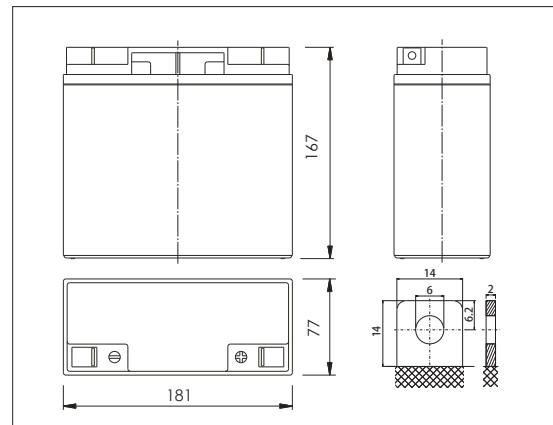
DC POWER
SUPPLY

BCN-12V20



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 12V20AH Sealed Lead Acid Maintenance Free

Specifications

Nominal Voltage		12V
Rated Capacity(20 hour rate)		20Ah
Dimensions	Total Height (with terminals)	6.57 inches (167mm)
	Height	6.57 inches (167mm)
	Length	7.15 inches (181.5mm)
	Width	3.03 inches (77mm)
Weight		Approx. 13.20 Pound (6.0kg)

Characteristics

Capacity 77°F(25°C)	20 hour rate (1.0A)	20Ah
	10 hour rate (1.86A)	18.6Ah
	5 hour rate (3.2A)	16Ah
	1 hour rate (12.0A)	12Ah
	15 minute rate (35.2A)	8.8Ah
Internal Resistance	Full Charged Battery 77°F(25°C)	12.5 mΩ
Capacity Affected by Temperature (20 hour 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)	300A(5S)	
Terminal	T4	
Charge (Constant Voltage)	Cycle	Initial Charging Current Less than 6A
		Voltage 14.4 V / 77°F (25°C) Equalization temperature compensation coefficient: -24mV/°C
	Float	Voltage 13.8V / 77°F (25°C) Compensation coefficient of floating charging temperature: -18mV/°C

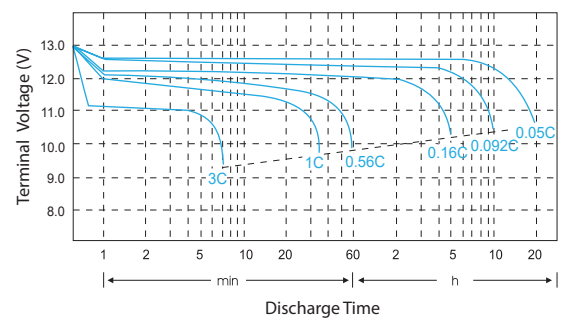
Constant Current Discharge (Amperes @25°C)

F.V/Time	5Min	10Min	15Min	30Min	60Min	2H	3H	4H	5H	10H	20H
1.60	76.2	48.4	35.2	21.6	12.7	7.47	5.16	4.00	3.29	1.90	1.03
1.65	74.4	47.0	33.9	21.0	12.5	7.20	5.07	3.92	3.24	1.86	1.02
1.70	71.0	45.0	32.6	20.6	12.2	7.11	5.02	3.88	3.24	1.86	1.01
1.75	68.0	43.2	32.0	20.4	12.0	7.02	5.02	3.84	3.20	1.86	1.00
1.80	64.0	42.8	31.2	19.8	11.8	6.80	4.93	3.80	3.16	1.81	0.978

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

F.V/Time	5Min	10Min	15Min	30Min	60Min	2H	3H	4H	5H	10H	20H
1.60	141	90.4	66.9	41.0	23.0	14.5	10.2	7.96	6.54	3.79	2.03
1.65	139	88.1	64.4	40.1	22.7	14.1	10.1	7.80	6.46	3.76	2.02
1.70	132	84.4	61.9	39.3	22.3	13.9	10.0	7.76	6.49	3.73	2.01
1.75	127	81.5	60.9	39.0	21.8	13.7	10.0	7.68	6.40	3.73	2.01
1.80	119	80.7	59.4	37.9	21.4	13.3	9.85	7.60	6.31	3.64	1.97

Discharge Curves 77°F(25°C)



Relationship Between Charge Voltage and Temperature

