

EMERGENCY
LIGHT
SYSTEM



FIRE &
SECURITY
SYSTEM



CAR & OTHER
STARTING
APPLICATIONS



ELECTRO-
MEDICAL
DEVICES



UPS



RAILWAY
SIGNAL



COMMUNICATIONS
POWER SUPPLY



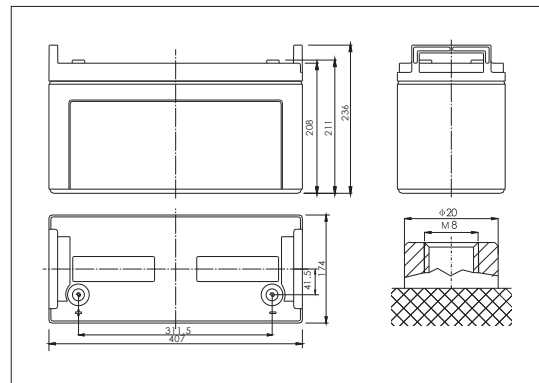
DC POWER
SUPPLY

BCN-12V120



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 12V120AH Sealed Lead Acid Maintenance Free

Specifications

Nominal Voltage		12V
Rated Capacity(10 hour rate)		120Ah
Dimensions	Total Height (with terminals)	9.29 inches(236mm)
	Height	8.19 inches(208mm)
	Length	16.02 inches(407mm)
	Width	6.85 inches(174mm)
Weight		Approx. 75.90 Pound(34.5kg)

Characteristics

Capacity 77°F(25°C)	10 hour rate (12A)		120Ah
	5 hour rate (19.2A)		96Ah
	1 hour rate (72A)		72Ah
	15 minute rate (197)		49.2Ah
Internal Resistance		Full Charged Battery 77°F(25°C)	4.0 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)		960A(5S)	
Terminal		T3	
Charge (Constant Voltage)	Cycle	Initial Charging Current Less than 36A	
		Voltage 14.1 V / 77 °F (25 °C) Equalization temperature compensation coefficient: -24mV/°C	
	Float	Voltage 13.5V / 77 °F (25 °C) Compensation coefficient of floating charging temperature: -18mV/°C	

Constant Current Discharge (Amperes @25 °C)

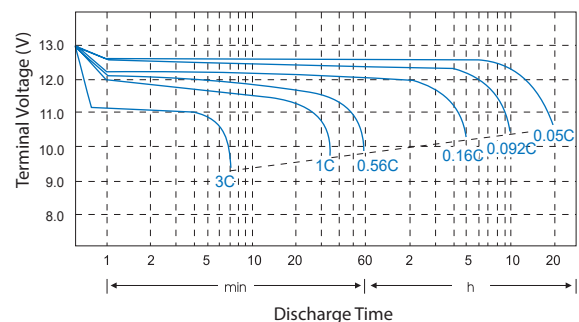
F.V/Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	271	197	127	76.1	44.2	31.7	24.8	21.3	14.6	12.9	7.10
1.65	261	189	122	73.2	42.5	31.6	24.5	21.2	14.5	12.8	7.04
1.70	246	182	104	73.1	41.9	31.5	23.6	21.0	14.1	12.6	6.93
1.75	215	172	97.9	72.0	41.7	31.2	22.9	20.3	13.9	12.5	6.88
1.80	207	165	94.1	69.2	40.1	30.0	22.0	19.2	13.4	12.0	6.60
1.85	170	144	86.6	63.7	38.5	29.4	20.9	18.5	12.7	11.6	6.38

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

F.V/Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	473	368	229	143	84.0	58.9	46.5	38.9	27.5	24.5	13.5
1.65	467	365	222	138	82.9	58.8	46.3	38.6	27.4	24.3	13.4
1.70	455	349	194	133	82.1	57.2	45.2	37.9	26.8	23.9	13.2
1.75	415	329	187	130	81.5	55.7	44.1	37.2	26.0	23.8	13.1
1.80	396	317	181	128	79.9	55.3	43.7	36.6	25.7	22.8	12.5
1.85	328	277	169	125	77.0	54.0	42.5	35.4	24.1	21.8	12.0

• Manufactured by factory with ISO 9001, ISO 14001, OHSAS 18001, CE, UL STANDARD

Discharge Curves 77°F(25°C)



Relationship Between Charge Voltage and Temperature

