

BCN
Uninterruptible Power Supply



EMERGENCY
LIGHT
SYSTEM



FIRE &
SECURITY
SYSTEM



CAR & OTHER
STARTING
APPLICATIONS



ELECTRO-
MEDICAL
DEVICES



UPS



RAILWAY
SIGNAL



COMMUNICATIONS
POWER SUPPLY



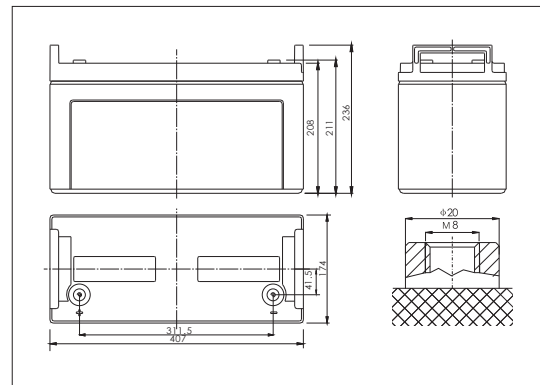
DC POWER
SUPPLY

BCN-12V100



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 12V100AH Sealed Lead Acid Maintenance Free

Specifications

Nominal Voltage		12V
Rated Capacity(20 hour rate)		100Ah
Dimensions	Total Height (with terminals)	9.29inches (236mm)
	Height	8.19inches (208mm)
	Length	16.02inches (407mm)
	Width	6.85inches (174mm)
Weight		Approx.67.1 pound(30.5kg)

Characteristics

Capacity 77°F(25°C)	20 hour rate (5.0A)	100Ah
	10 hour rate (9.20A)	92Ah
	5 hour rate (16.0A)	80Ah
	1 hour rate (60.0A)	60Ah
	15 minute Rate(164A)	41Ah
Internal Resistance	Full charged Battery 77°F(25°C)	5mΩ
	104°F(40°C)	102%
	77°F(25°C)	100%
	32°F(0°C)	85%
Capacity affected by Temperature (20 hour rate)	5°F(-15°C)	65%
	Capacityafter 3 month storage	91%
	Capacityafter 6 month storage	81%
	Capacityafter 12 month storage	60%
Self-Discharge 77°F(20°C)		
Max. Discharge Current 77°F(25°C)		800A(5S)
Terminal		M3
Charge (ConstantVoltage)	Cycle	Initial Charging Current less than 30A
		Voltage 14.4~14.7V/77°F(25°C)
	Float	Voltage 13.5~13.8V/77°F(25°C)

Constant Current Discharge (AMPERES @25°C)

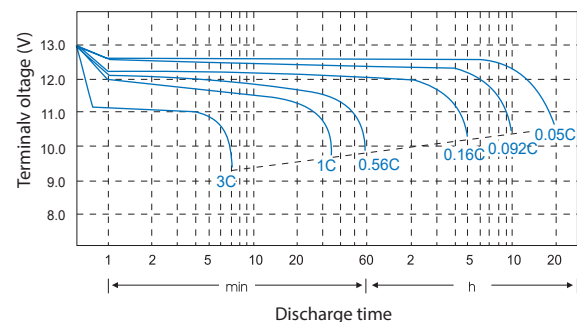
F.V/Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	204	148	96.0	60.2	33.3	23.3	18.6	16.0	11.9	9.90	5.17
1.65	196	143	92.2	55.1	32.0	23.0	18.4	15.8	11.8	9.80	5.12
1.70	185	136	78.4	54.6	31.2	22.6	17.9	15.3	11.6	9.59	5.06
1.75	162	128	73.5	54.2	31.0	22.1	17.4	11.5	11.5	9.20	5.00
1.80	156	124	70.8	52.2	29.8	21.3	16.7	13.9	11.0	8.85	4.81
1.85	128	107	65.1	47.9	28.6	20.2	15.9	13.2	10.9	8.41	4.57

Constant Power Discharge (WATTS PER CELL@25°C)

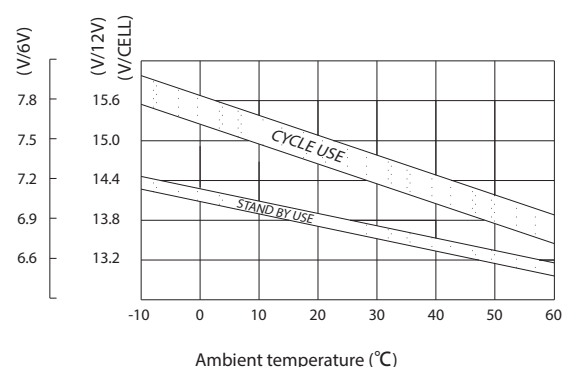
F.V/Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	355	277	172	107	63.2	44.3	35.0	29.3	20.7	18.3	9.73
1.65	350	274	167	103	62.3	44.2	34.9	29.1	20.6	18.2	9.72
1.70	342	262	146	100	61.8	43.0	34.0	28.5	20.1	18.1	9.68
1.75	312	247	141	97.8	59.4	41.9	33.3	28.0	19.6	18.0	9.67
1.80	297	238	136	96.9	60.1	41.6	32.8	27.4	19.3	17.7	9.65
1.85	246	208	127	93.9	57.9	40.6	31.9	26.7	18.1	16.9	9.14

• 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



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