

EMERGENCY
LIGHT
SYSTEM



FIRE &
SECURITY
SYSTEM



CAR & OTHER
STARTING
APPLICATIONS



ELECTRO-
MEDICAL
DEVICES



UPS



RAILWAY
SIGNAL



COMMUNICATIONS
POWER SUPPLY



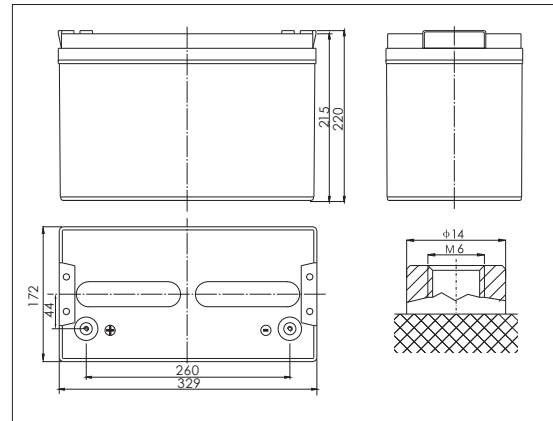
DC POWER
SUPPLY

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

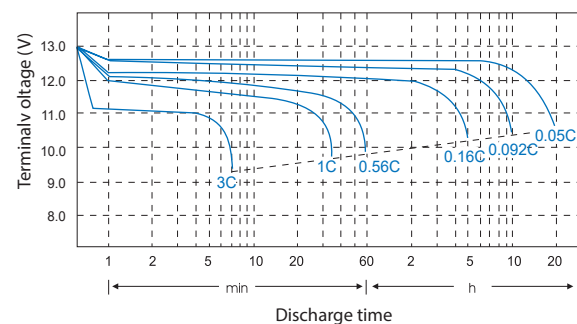
Specifications

Nominal Voltage		12V
Rated Capacity (20 hour rate)		100Ah
Dimensions	Total Height (with terminals)	8.66 inches(220mm)
	Height	8.46 inches(215mm)
	length	12.95 inches(329mm)
	width	6.77 inches(172mm)
Weight		Approx.60.5 Pound(27.5kg)

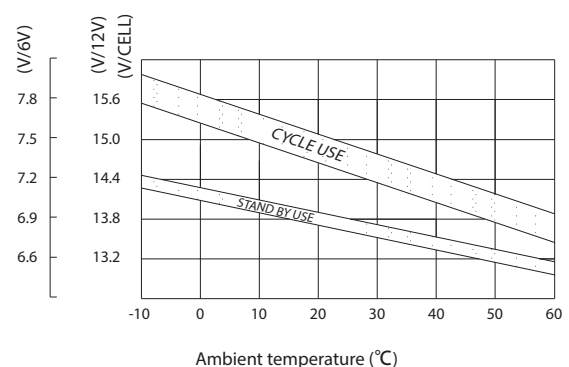
Characteristics

Capacity 77°F(25°C)	20 hour rate (5.0A)	100 Ah
	10 hour rate (9.2A)	92 Ah
	5 hour rate (16.0A)	80 Ah
	1hour rate (60.0A)	60 Ah
	15Minute Rate (164A)	41 Ah
Internal Resistance	Full charged Battery 77°F(25°C)	5 MΩ
	104°F(40°C)	102%
	77°F(25°C)	100%
Capacity affected by Temperature (20hour rate)	32°F(0°C)	85%
	5°F(-15°C)	65%
Self-Discharge 77°F(25°C)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	81%
	Capacity after 12 month storage	60%
Max. Discharge Current 77°F(25°C)	800A(5S)	
Terminal	M2	
Charge (Constant Voltage)	Cycle	Initial Charging Current less than 30A Voltage 14.4~14.7 V / 77°F(25°C)
	Float	Voltage 13.5~13.8V / 77°F(25°C)

Discharge Curves 77°F(25°C)



Relationship between charge voltage and temperature



Constant Current Discharge (AMPERES @25°C)

F.V/Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	226	164	106	63.4	36.9	25.8	20.6	17.7	12.1	9.90	5.17
1.65	217	158	102	61.0	35.5	25.5	20.4	17.5	12.0	9.80	5.12
1.70	205	151	86.8	60.5	34.6	25.0	19.9	16.9	11.9	9.59	5.06
1.75	180	142	81.5	60.0	34.3	24.5	19.3	16.0	11.6	9.20	5.00
1.80	173	137	78.4	57.7	33.0	23.6	18.5	15.4	11.2	8.85	4.81
1.85	142	119	72.1	53.1	31.7	22.4	17.6	14.6	10.6	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	394	307	191	119	70.0	49.1	38.7	32.4	22.9	18.3	9.73
1.65	389	304	185	115	69.1	49.0	38.6	32.2	22.8	18.2	9.72
1.70	379	291	162	111	68.4	47.7	37.7	31.6	22.3	18.1	9.68
1.75	346	274	156	108	67.9	46.4	36.8	31.0	21.7	18.0	9.67
1.80	330	264	151	107	66.6	46.1	36.4	30.5	21.4	17.7	9.65
1.85	273	231	141	104	64.2	45.0	35.4	29.6	20.1	16.9	9.14

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

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