

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-12V90



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

Batteries come standard with a special tray

BATTERY BCN 12V90AH Sealed Lead Acid Maintenance Free

Specifications

Nominal Voltage		12V
Rated Capacity(10 hour rate)		90Ah
Dimensions	Total Height (with terminals)	8.51 inches(216mm)
	Height	8.31 inches(211mm)
	Length	10.24 inches(260mm)
	Width	6.65 inches(169mm)
Weight		Approx. 53.9 Pound(24.5kg)

Characteristics

Capacity 77°F(25°C)		10 hour rate (9.0A)	90Ah
		5 hour rate (13.6A)	68Ah
		1 hour rate (51A)	51Ah
		15 minute rate (138A)	34.5Ah
Internal Resistance		Full Charged Battery 77°F(25°C)	6.0 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)		723A(5S)	
Terminal		T1	
Charge (Constant Voltage)	Cycle	Initial Charging Current Less than 25.5A	
		Voltage 14.1 V / 77 °F (25 °C)	
	Float	Equalization temperature compensation coefficient: -24mV/ °C	
		Voltage 13.5V / 77 °F (25 °C) Compensation coefficient of floating charging temperature: -18mV/ °C	

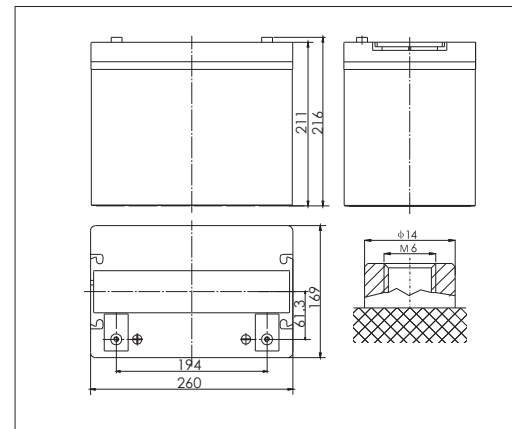
Constant Current Discharge (Amperes @25 °C)

F.V/Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	191	138	91.9	55.1	31.6	21.9	17.3	14.9	10.1	9.18	4.47
1.65	183	133	88.4	53.0	30.4	21.7	17.1	14.8	10.0	9.15	4.42
1.70	174	135	84.0	52.4	30.1	21.6	16.7	14.7	9.98	9.10	4.33
1.75	152	120	78.7	51.0	30.0	21.4	16.3	14.5	9.71	8.84	4.25
1.80	146	116	75.7	49.0	28.8	21.2	15.7	13.6	9.33	8.50	4.09
1.85	119	101	69.6	45.1	27.6	21.1	14.9	13.1	8.87	8.17	3.89

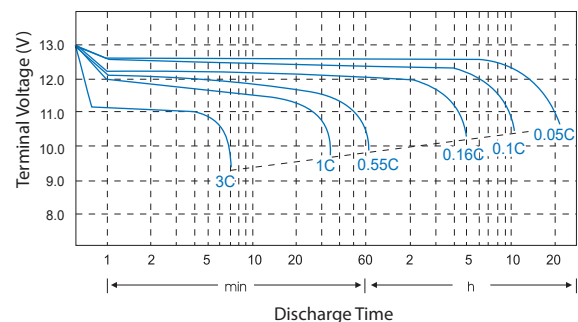
Constant Power Discharge (Watts Per Cell@25 °C)

F.V/Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	333	259	165	102	59.8	41.5	32.7	27.4	18.4	15.3	8.14
1.65	329	257	161	101	58.8	41.3	32.5	27.2	18.3	15.2	8.12
1.70	321	251	157	101	57.7	41.0	32.3	27.0	18.1	15.0	8.09
1.75	298	237	149	100	57.2	40.8	32.1	26.9	18.0	14.9	8.05
1.80	278	222	146	96.8	56.1	40.1	31.7	26.6	17.9	14.7	8.01
1.85	230	194	136	90.3	54.1	38.9	30.3	24.8	16.9	14.2	7.76

• 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

