

EMERGENCY
LIGHT
SYSTEM



FIRE &
SECURITY
SYSTEM



CAR & OTHER
STARTING
APPLICATIONS



ELECTRO-
MEDICAL
DEVICES



UPS



RAILWAY
SIGNAL



COMMUNICATIONS
POWER SUPPLY



DC POWER
SUPPLY

BCN(G)-2V500



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(G)-2V500AH Sealed Lead Acid Maintenance Free

Specifications

Nominal Voltage		2V
Rated Capacity (10 hour rate)		500Ah
Dimensions	Total Height (with terminals)	14.41 inches(366mm)
	Height	13.03 inches(331mm)
	Length	9.49 inches(241mm)
	Width	6.77 inches(172mm)
Weight		Approx.61.6 Pound(28.0kg)

Characteristics

Capacity 77°F(25°C)	10 hour rate (50.0A)	500 Ah
	5 hour rate (85A)	425Ah
	1hour rate (275A)	275 Ah
Internal Resistance	Full Charged Battery 77°F(25°C)	0.6 mΩ
Capacity Affected by Temperature (20hour 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)	3500A(5S)	
Terminal	T3	
Charge (Constant Voltage)	Cycle	Initial Charging Current Less than 100A
		Voltage 2.35 V / 77 °F (25°C) Equalization temperature compensation coefficient: -4mV/°C
	Float	Voltage 2.25 V / 77 °F (25°C) Compensation coefficient of floating charging temperature: -3mV/°C

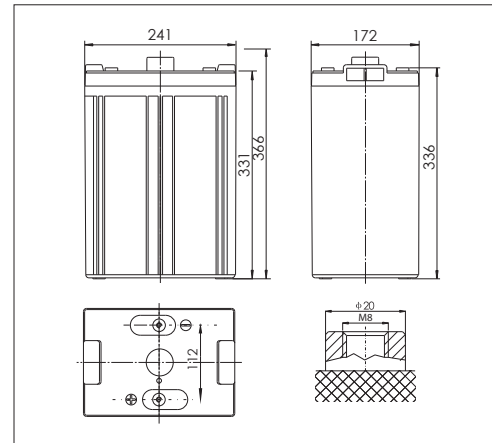
Constant Current Discharge (Amperes @25°C)

F.V/Time	10Min	15Min	30Min	1Hour	3Hour	5Hour	8Hour	10Hour	20Hour
1.60	925	750	540	292	130	94.5	62.4	54.0	28.6
1.65	890	725	520	281	129	94.0	61.8	53.5	28.3
1.70	840	690	472	279	128	93.0	60.6	52.5	27.8
1.75	740	650	416	275	126	88.5	60.1	52.0	27.6
1.80	710	625	400	266	125	85.0	57.9	50.0	27.5
1.85	580	545	368	245	123	82.0	55.6	48.1	25.5

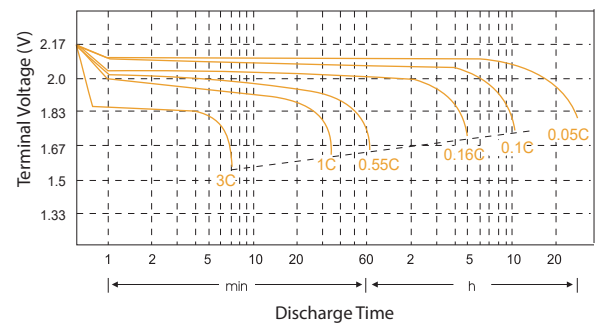
Constant Power Discharge (Watts Per Cell@25°C)

F.V/Time	10Min	15Min	30Min	1Hour	3Hour	5Hour	8Hour	10Hour	20Hour
1.60	1646	1402	999	555	247	180	121	105	55.8
1.65	1602	1341	962	534	245	179	120	104	55.2
1.70	1512	1276	873	530	243	177	118	102	54.2
1.75	1369	1202	790	523	239	168	117	101	53.8
1.80	1313	1156	760	505	238	162	113	97.5	53.6
1.85	1073	1008	699	466	234	156	108	93.8	49.7

• 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

