

EMERGENCY
LIGHT
SYSTEM



FIRE &
SECURITY
SYSTEM



CAR & OTHER
STARTING
APPLICATIONS



ELECTRO-
MEDICAL
DEVICES



UPS



RAILWAY
SIGNAL



COMMUNICATIONS
POWER SUPPLY



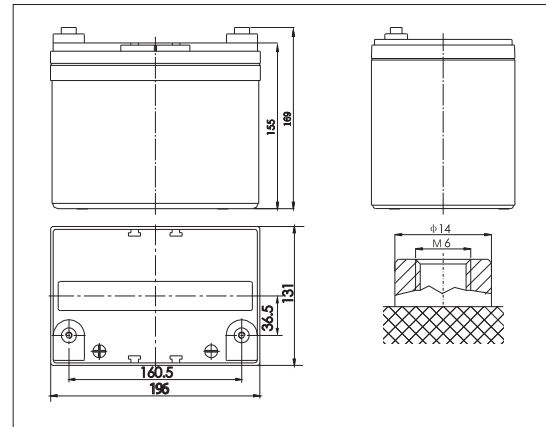
DC POWER
SUPPLY

BCN-12V33



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 12V33AH Sealed Lead Acid Maintenance Free

Specifications

Nominal Voltage		12V
Rated Capacity(10 hour rate)		33Ah
Dimensions	Total Height (with terminals)	6.65 inches(169mm)
	Height	6.10 inches(155mm)
	Length	7.72 inches(196mm)
	Width	5.16 inches(131mm)
Weight		Approx. 22.22 Pound(10.1kg)

Characteristics

Capacity 77°F(25°C)		10 hour rate (3.3A)	33.0Ah
		5 hour rate (5.08A)	25.4Ah
		1 hour rate (19.8A)	19.8Ah
		15 minute rate (54.4A)	13.6Ah
Internal Resistance		Full Charged Battery 77°F(25°C)	9 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)		330A(5S)	
Terminal		T1	
Charge (Constant Voltage)	Cycle	Initial Charging Current Less than 9.9A	
		Voltage 14.1V / 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	

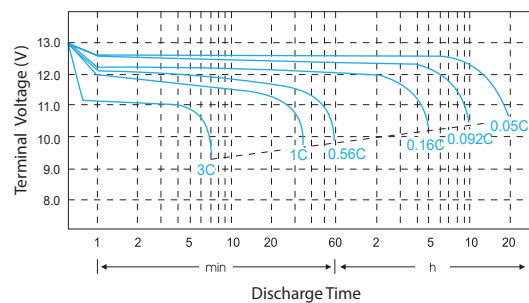
Constant Current Discharge (Amperes @25°C)

F.V/Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	73.7	54.4	36.9	21.2	12.1	8.49	6.78	5.93	4.18	3.70	1.90
1.65	70.9	52.3	35.5	20.4	11.6	8.41	6.71	5.87	4.14	3.67	1.88
1.70	67.7	51.1	33.4	20.1	11.4	8.25	6.50	5.58	4.01	3.60	1.86
1.75	59.3	46.7	30.5	19.8	11.2	8.18	6.33	5.28	3.96	3.43	1.83
1.80	57.0	44.9	29.3	18.4	10.8	7.87	6.09	5.08	3.80	3.30	1.82
1.85	46.7	39.1	27.0	16.9	10.4	7.48	5.78	4.83	3.61	3.13	1.73

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

F.V/Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	129	98.5	65.2	39.2	23.0	16.2	12.9	10.9	7.70	7.14	3.61
1.65	127	97.5	64.5	38.8	22.8	16.1	12.8	10.8	7.62	7.08	3.57
1.70	125	94.5	62.4	37.8	22.4	16.0	12.7	10.7	7.51	6.95	3.53
1.75	117	93.1	61.4	36.2	22.1	16.8	13.0	10.6	7.47	6.62	3.48
1.80	109	86.3	56.4	35.4	21.9	15.6	12.4	10.4	7.27	6.37	3.46
1.85	90.0	78.7	52.4	35.1	21.0	15.1	11.8	9.70	6.99	6.04	3.29

Discharge Curves 77°F(25°C)



Relationship Between Charge Voltage and Temperature

