

EMERGENCY LIGHT SYSTEM



FIRE & SECURITY SYSTEM



CAR & OTHER STARTING APPLICATIONS



ELECTRO-MEDICAL DEVICES



UPS



RAILWAY SIGNAL



COMMUNICATIONS POWER SUPPLY



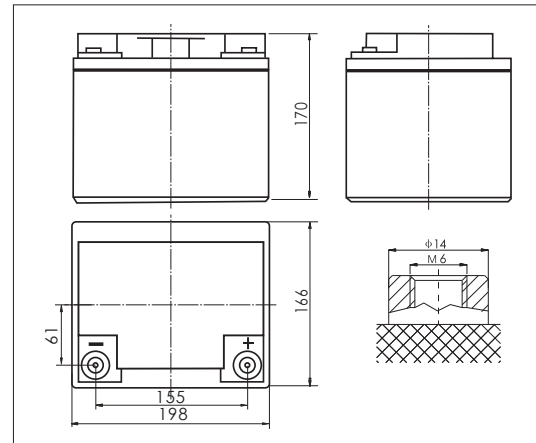
DC POWER SUPPLY

BCN-12V45



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 12V45AH Sealed Lead Acid Maintenance Free

Specifications

Nominal Voltage		12V
Rated Capacity(10 hour rate)		45Ah
Dimensions	Total Height (with terminals)	6.70 inches(170mm)
	Height	6.70 inches(170mm)
	Length	7.80 inches(198mm)
	Width	6.54 inches(166mm)
Weight		Approx. 30.14 Pound(13.7kg)

Characteristics

Capacity 77°F(25°C)	10 hour rate (4.50A)	45.0Ah
	5 hour rate (7.20A)	36.0Ah
	1 hour rate (27.0A)	27.0Ah
	15 minute rate (74.4A)	18.6Ah
Internal Resistance	Full Charged Battery 77°F(25°C)	8.0mΩ
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)	450A(5S)	
Terminal	T1	
Charge (Constant Voltage)	Cycle	Initial Charging Current Less than 13.5A
		Voltage 14.1 V / 77 °F (25 °C)
		Equalization temperature compensation coefficient: -24mV/°C
		Voltage 13.5V / 77 °F (25 °C)
	Float	Compensation coefficient of floating charging temperature: -18mV/°C

Constant Current Discharge (Amperes @25 °C)

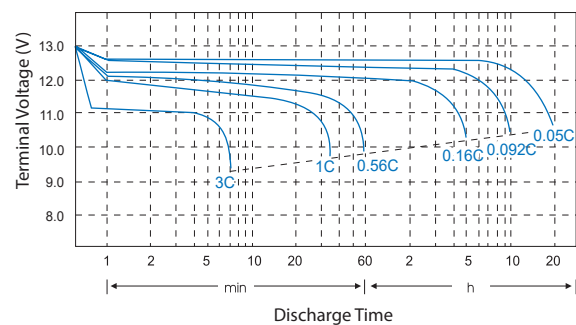
F.V/Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	102	74.4	47.7	28.6	16.6	11.9	9.34	7.99	5.50	4.83	2.71
1.65	97.7	71.5	45.9	27.5	16.0	11.8	9.25	7.96	5.45	4.79	2.69
1.70	92.3	70.7	39.1	27.2	15.8	11.7	8.89	7.88	5.36	4.69	2.63
1.75	81.0	64.2	38.2	27.0	15.6	11.5	8.56	7.61	5.24	4.66	2.58
1.80	77.9	61.7	36.7	26.0	15.0	11.3	8.23	7.20	5.04	4.50	2.48
1.85	63.9	53.7	33.8	23.9	14.4	11.1	7.82	6.92	4.79	4.32	2.35

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

F.V/Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	169	134	83.1	52.8	29.9	21.3	16.9	14.3	9.47	8.94	5.01
1.65	164	131	82.6	51.2	29.0	21.0	16.7	14.1	9.41	8.86	4.98
1.70	160	126	80.1	49.6	28.7	20.7	16.3	13.7	9.18	8.68	4.87
1.75	151	120	79.8	49.3	28.5	20.6	16.2	13.6	9.09	8.62	4.77
1.80	138	111	75.9	48.4	27.9	20.1	15.9	13.4	8.79	8.33	4.59
1.85	115	99.0	69.1	45.0	26.9	19.6	15.3	12.7	8.54	7.99	4.35

- Manufactured by factory with ISO 9001, ISO 14001, OHSAS 18001, CE, UL STANDARAD

Discharge Curves 77°F(25°C)



Relationship Between Charge Voltage and Temperature

