

EMERGENCY
LIGHT
SYSTEM



FIRE &
SECURITY
SYSTEM



CAR & OTHER
STARTING
APPLICATIONS



ELECTRO-
MEDICAL
DEVICES



UPS



RAILWAY
SIGNAL



COMMUNICATIONS
POWER SUPPLY



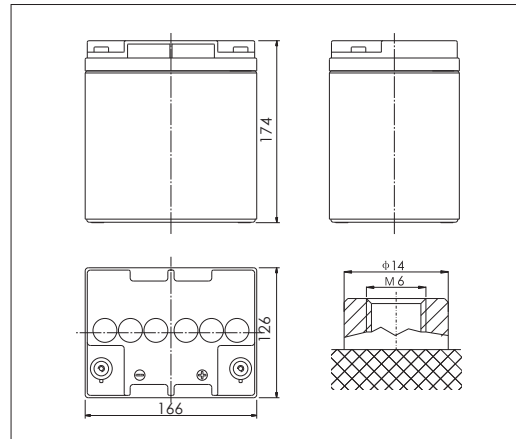
DC POWER
SUPPLY

BCN-12V24



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 12V24AH Sealed Lead Acid Maintenance Free

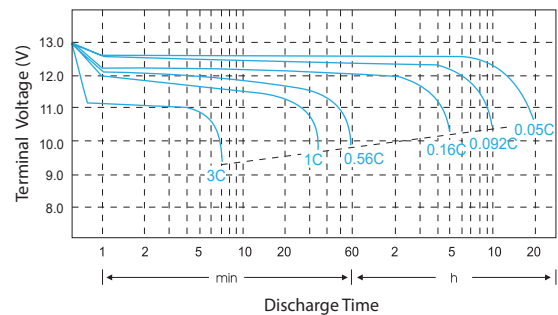
Specifications

Nominal Voltage		12V
Rated Capacity (20 hour rate)		24Ah
Dimensions	Total Height (with terminals)	6.85 inches(174mm)
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	Length	6.54 inches(166mm)
	Width	4.96 inches(126mm)
Weight		Approx.17.6 Pound(8.0kg)

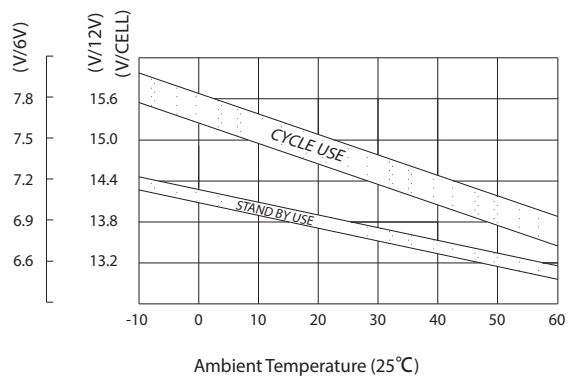
Characteristics

Capacity 77°F(25°C)	20 hour rate (1.20A)	24 Ah
	10 hour rate (2.23A)	22.3 Ah
	5 hour rate (3.84A)	19.2 Ah
	1hour rate (14.4A)	14.4 Ah
	15minute rate (42.0A)	10.5Ah
Internal Resistance		Full Charged Battery 77°F(25°C) 12mΩ
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)		360A(5S)
Terminal		T1
Charge (Constant Voltage)	Cycle	Initial Charging Current Less than 7.2A Voltage 14.4V / 77°F (25°C) Equalization temperature compensation coefficient: -24mV/°C
		Voltage 13.8V / 77°F (25°C)
	Float	Compensation coefficient of floating charging temperature: -18mV/°C

Discharge Curves 77°F(25°C)



Relationship Between Charge Voltage and Temperature



Constant Current Discharge (Amperes @25°C)

F.V/Time	5Min	10Min	15Min	30Min	60Min	2H	3H	4H	5H	10H	20H
1.60	91.5	58.1	42.0	25.9	15.3	8.96	6.19	4.80	3.95	2.28	1.23
1.65	89.3	56.4	40.5	25.2	15.0	8.64	6.08	4.70	3.89	2.23	1.22
1.70	85.2	54.0	38.9	24.7	14.7	8.53	6.03	4.66	3.89	2.23	1.21
1.75	81.6	51.8	38.3	24.5	14.4	8.43	6.03	4.61	3.84	2.23	1.20
1.80	76.8	51.4	37.3	23.8	14.1	8.16	5.92	4.56	3.79	2.18	1.17

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

F.V/Time	5Min	10Min	15Min	30Min	60Min	2H	3H	4H	5H	10H	20H
1.60	170	108	80.3	49.2	27.6	17.4	12.3	9.55	7.85	4.54	2.44
1.65	166	106	77.3	48.1	27.3	16.9	12.1	9.36	7.75	4.51	2.43
1.70	158	101	74.3	47.2	26.8	16.6	12.0	9.31	7.79	4.48	2.42
1.75	152	97.8	73.1	46.8	26.1	16.4	12.0	9.22	7.68	4.48	2.41
1.80	143	96.9	71.2	45.4	25.7	16.0	11.8	9.12	7.57	4.37	2.36

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