

EMERGENCY
LIGHT
SYSTEM



FIRE &
SECURITY
SYSTEM



CAR & OTHER
STARTING
APPLICATIONS



ELECTRO-
MEDICAL
DEVICES



UPS



RAILWAY
SIGNAL



COMMUNICATIONS
POWER SUPPLY



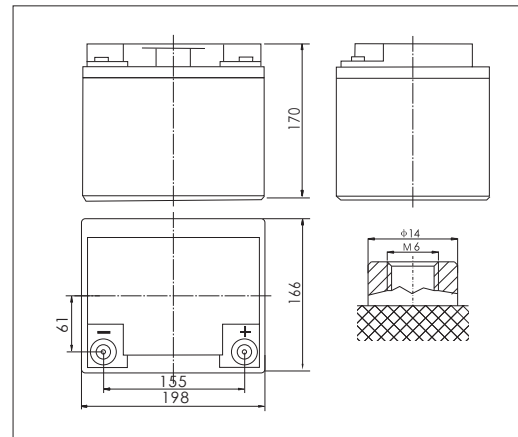
DC POWER
SUPPLY

BCN-12V40



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 12V40AH Sealed Lead Acid Maintenance Free

Specifications

Nominal Voltage		12V
Rated Capacity (10 hour rate)		40Ah
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.26.4 Pound(12kg)

Characteristics

Capacity 77°F(25°C)		10 hour rate (4.0A)	40.0Ah
		5 hour rate (6.08A)	30.4 Ah
		1hour rate (22.8A)	22.8 Ah
		15minute rate (62.8A)	15.7 Ah
Internal Resistance		Full Charged Battery 77°F(25°C)	8.0mΩ
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)		380A(5S)	
Terminal		T1	
Charge (Constant Voltage)	Cycle	Initial Charging Current Less than 11.4A	
		Voltage 14.1 V / 77 °F (25 °C) Equalization temperature compensation coefficient: -24mV / C	
	Float	Voltage 13.5V / 77 °F (25 °C) Compensation coefficient of floating charging temperature: -18mV / C	

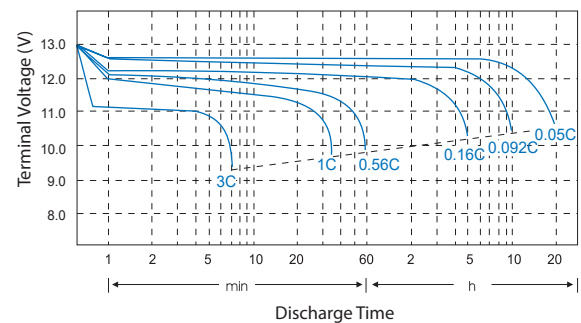
Constant Current Discharge (Amperes @25 °C)

F.V/Time	10Min	15Min	20Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	80.7	62.8	52.1	39.8	24.5	13.9	9.99	7.72	6.53	4.61	4.09	2.18
1.65	77.6	60.4	50.1	38.3	23.6	13.4	9.89	7.64	6.47	4.56	4.05	2.15
1.70	73.1	57.3	47.5	36.2	23.3	13.0	9.80	7.38	6.24	4.48	3.99	2.14
1.75	63.6	50.9	42.2	34.6	22.8	13.0	9.79	7.27	6.21	4.37	3.97	2.11
1.80	61.2	48.9	40.5	33.3	21.9	12.5	9.50	6.99	6.08	4.20	3.80	2.09
1.85	50.2	42.5	35.3	30.6	20.1	12.0	9.39	6.64	5.85	3.99	3.66	2.02

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

F.V/Time	10Min	15Min	20Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	143	113	93.7	70.2	44.6	25.3	18.0	14.3	12.1	8.53	7.57	4.14
1.65	139	110	91.3	69.7	43.2	24.5	17.8	14.1	11.9	8.44	7.49	4.09
1.70	135	106	87.9	67.6	41.9	24.2	17.5	13.8	11.6	8.29	7.38	4.07
1.75	127	102	84.7	67.4	41.6	24.0	17.4	13.7	11.5	8.08	7.34	4.07
1.80	117	94.1	78.1	64.1	40.9	23.6	17.0	13.4	11.3	7.77	7.03	3.97
1.85	96.9	82.7	68.6	58.3	38.0	22.7	16.5	12.9	10.8	7.38	6.77	3.84

Discharge Curves 77°F(25°C)



Relationship Between Charge Voltage and Temperature

