

EMERGENCY
LIGHT
SYSTEM



FIRE &
SECURITY
SYSTEM



CAR & OTHER
STARTING
APPLICATIONS



ELECTRO-
MEDICAL
DEVICES



UPS



RAILWAY
SIGNAL



COMMUNICATIONS
POWER SUPPLY



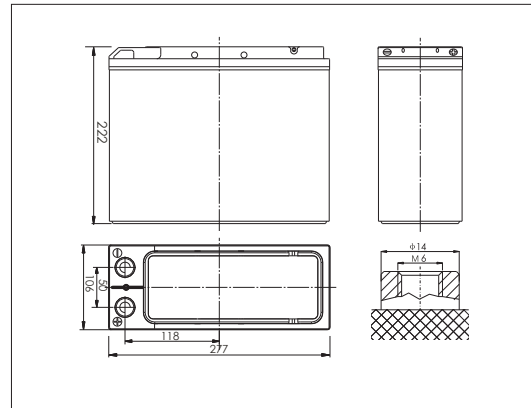
DC POWER
SUPPLY

BCN-H12V55



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 H12V50AH Sealed Lead Acid Maintenance Free

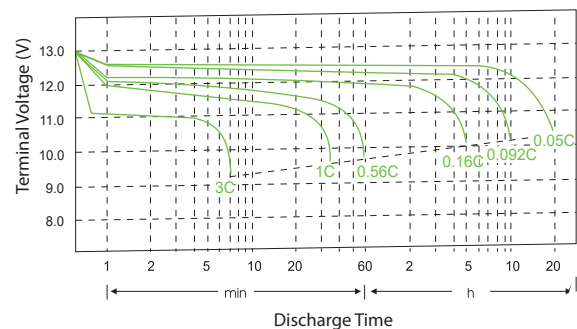
Specifications

Nominal Voltage		12V
Rated Capacity (10 hour rate)		55Ah
Dimensions	Total Height (with terminals)	8.75 inches(222mm)
	Height	8.75 inches(222mm)
	Length	10.9 inches(277mm)
	Width	4.18 inches(106mm)
Weight		Approx. 35.2 Pound(16kg)

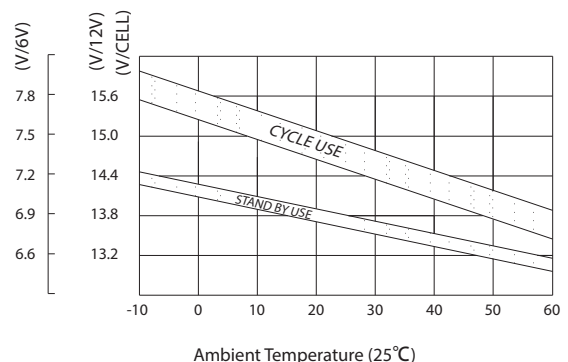
Characteristics

Capacity 77°F(25°C)	10 hour rate (5.5A)	55Ah
	5 hour rate (8.0A)	40Ah
	1 hour rate (30A)	30Ah
	15 minute rate (82.4A)	20.6Ah
Internal Resistance	Full Charged Battery 77°F(25°C)	8.3mΩ
	104°F(40°C)	102%
Capacity Affected by Temperature (20 hour rate)	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)	500A(5S)	
Terminal	T1	
Charge (Constant Voltage)	Cycle	Initial Charging Current Less than 15A
		Voltage 14.1V / 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

Discharge Curves 77°F(25°C)



Relationship Between Charge Voltage and Temperature



Constant Current Discharge (Amperes @25°C)

F.V/Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	113	82.4	54.1	32.4	18.7	12.9	10.2	8.89	6.16	5.38	2.97
1.65	109	79.2	52.0	31.2	18.0	12.8	10.1	8.84	6.10	5.32	2.93
1.70	103	78.5	48.0	31.0	17.6	12.7	9.85	8.75	5.95	5.26	2.91
1.75	90.0	71.2	46.6	30.0	17.3	12.6	9.53	8.45	5.82	5.21	2.86
1.80	86.5	68.5	44.8	28.8	16.6	12.5	9.16	8.00	5.60	5.00	2.75
1.85	70.9	59.6	41.2	26.5	15.9	12.3	8.70	7.69	5.32	4.80	2.61

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

F.V/Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	223	173	103	64.5	38.4	27.2	21.3	17.6	10.9	10.7	5.91
1.65	210	165	101	63.0	37.6	26.6	20.9	17.3	10.9	10.6	5.83
1.70	199	157	100	61.5	36.9	26.1	20.5	17.0	10.9	10.5	5.79
1.75	187	151	98.0	60.2	35.8	25.5	20.1	16.8	10.8	10.4	5.69
1.80	174	144	97.0	58.6	34.8	24.9	19.7	16.6	10.7	9.95	5.47
1.85	144	121	78.0	56.4	33.7	24.2	18.9	15.5	10.6	9.55	5.19

• Manufactured by factory with ISO 9001, ISO 14001, OHSAS 18001, CE, UL STANDARD

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