

EMERGENCY LIGHT SYSTEM



FIRE & SECURITY SYSTEM



CAR & OTHER STARTING APPLICATIONS



ELECTRO-MEDICAL DEVICES



UPS



RAILWAY SIGNAL



COMMUNICATIONS POWER SUPPLY



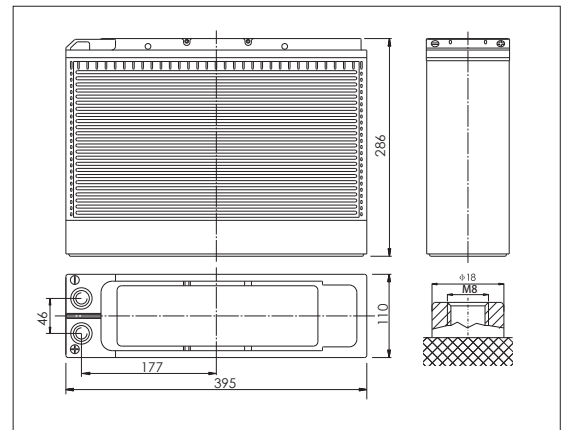
DC POWER SUPPLY

BCN-H12V100



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 H12V100AH Sealed Lead Acid Maintenance Free

Specifications

Nominal Voltage		12V
Rated Capacity (10 hour rate)		100Ah
Dimensions	Total Height (with terminals)	11.26 inches(286mm)
	Height	11.26 inches(286mm)
	Length	15.55 inches(395mm)
	Width	4.33 inches(110mm)
Weight		Approx.69.74 Pound(31.7kg)

Characteristics

Capacity 77°F(25°C)	10 hour rate (10A)	100 Ah
	5 hour rate (16.0A)	80 Ah
	1hour rate (60.0A)	60 Ah
	15minute rate (164A)	41 Ah
Internal Resistance		Full Charged Battery 77°F(25°C) 5.0 mΩ
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)		800A(5S)
Terminal		T5
Charge (Constant Voltage)	Cycle	Initial Charging Current Less than 30A
		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

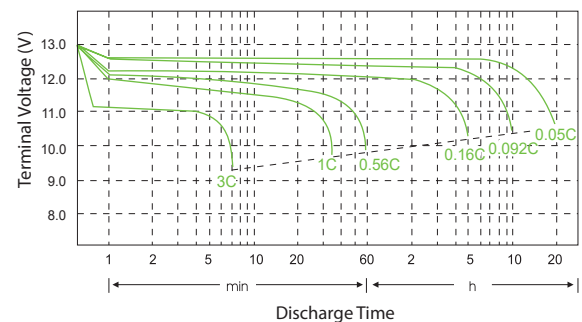
Constant Current Discharge (Amperes @25°C)

F.V/Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	226	164	106	63.4	36.9	25.9	20.6	17.8	12.1	10.8	5.71
1.65	217	158	102	61.0	35.5	25.8	20.4	17.7	12.0	10.7	5.66
1.70	205	151	86.8	60.5	34.6	25.7	19.9	17.5	11.9	10.5	5.56
1.75	180	142	81.5	60.0	34.3	25.5	19.3	16.9	11.6	10.4	5.51
1.80	173	137	78.4	57.7	33.0	25.0	18.5	16.0	11.2	10.0	5.50
1.85	142	119	72.1	53.1	31.7	24.5	17.6	15.4	10.6	9.62	5.09

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

F.V/Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	394	307	191	119	70.0	49.1	38.7	32.4	22.9	20.4	10.8
1.65	389	304	185	115	69.1	49.0	38.6	32.2	22.8	20.4	10.8
1.70	379	291	162	111	68.4	47.7	37.7	31.6	22.3	20.2	10.6
1.75	346	274	156	108	67.9	46.4	36.8	31.0	21.7	20.0	10.5
1.80	330	264	151	107	66.6	46.1	36.4	30.5	21.4	19.5	10.5
1.85	273	231	141	104	64.2	45.0	35.4	29.6	20.1	19.0	9.67

Discharge Curves 77°F(25°C)



Relationship Between Charge Voltage and Temperature

