



# Valve Regulated Lead-Acid Rechargeable Battery



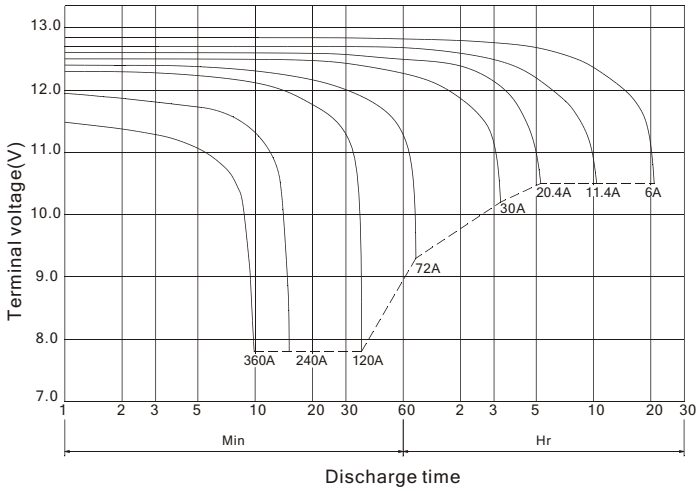
## BPS120-12

The battery is constructed by plates, separators, safety valves, flame arrestor and container. Since the electrolyte is held by a glass-mat separator and plates, the battery can be used in any direction and position (but upside-down should be avoided) without leakage.

### PERFORMANCE SPECIFICATIONS

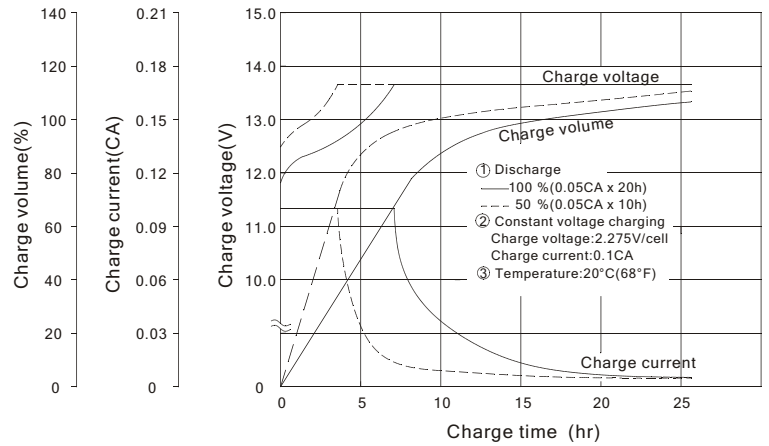
Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(Ah)	
20 Hour rate F.V.(1.75V/cell) (6.00A to 10.50volts) .....	120Ah
10 Hour rate F.V.(1.75V/cell) (11.40A to 10.50volts) .....	114Ah
5 Hour rate F.V.(1.75V/cell) (20.40A to 10.50volts) .....	102Ah
1 Hour rate F.V.(1.55V/cell) (72.00A to 9.30volts) .....	72Ah
Approximate Weight.....	39.5kg(87.1lbs.)
Terminal	
Standard.....	Type B4
Optional.....	Type I2
Terminal Hardware Initial Torque.....	5.5 Nm $\pm$ 5%
Internal Resistance (Fully Charged Battery).....	$\leq$ 4m $\Omega$
Maximum Discharge Current For 5 sec.(A).....	1200A
Maximum Charge Current(A).....	36A
Ambient Temperature	
Charge.....	0°C(32°F)~40°C(104°F)
Discharge.....	-20°C(-4°F)~50°C(122°F)
Storage.....	-20°C(-4°F)~40°C(104°F)
Design Life : 10 years for standby use at 20°C	
Case.....	ABS: UL 94-HB
Dimension(mm/inch)	
Length $\pm$ 2mm.....	407/16.02
Width $\pm$ 2mm.....	173/6.81
Container Height $\pm$ 2mm.....	210/8.27
Total Height $\pm$ 2mm.....	239/9.41
Application.....	UPS, Telecom, Golf-Carts.

## BPS120-12 Battery discharge characteristics (25°C/77°F)



## Battery Charging Characteristics

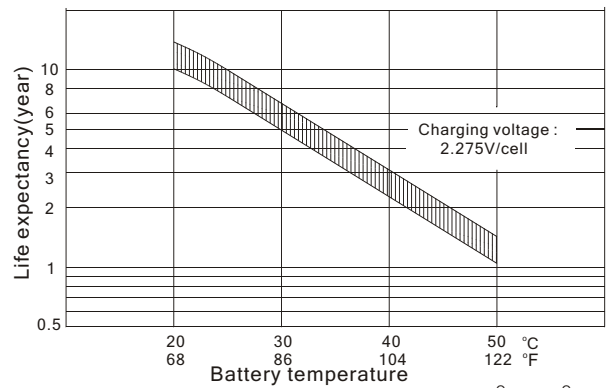
(Typical example of the charge characteristics for the standby use)



### Charging Procedure

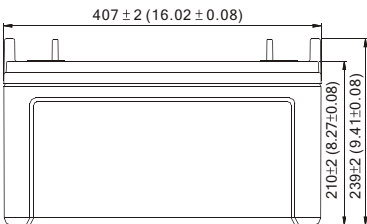
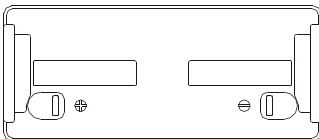
Application	Charging method	Charging Voltage at 20°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.1CA, 20°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging (with current restriction)	2.25~2.30	-3	0.3	24	20	0~40 (32~104°F)
For cycle service		2.40~2.50	-4	0.3	16	10	

### Effect of Temperature on Long Term Float Life



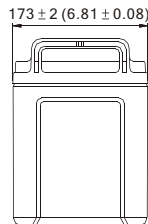
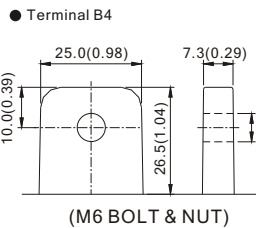
### OUTER DIMENSIONS

mm(inch)



### TERMINAL TYPE

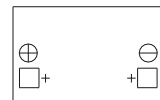
mm(inch)



### Constant power discharge characteristics at 25°C/77°F

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
10.80V	3688	2821	2346	1523	873.4	349.8	241.2	134.8	70.92
10.50V	4268	3057	2454	1581	899.6	356.8	244.8	136.8	72.00
10.20V	4535	3166	2530	1617	915.7	360.0	246.1	137.5	72.36
9.90V	4739	3242	2588	1640	926.7	362.5	247.2	137.9	72.58
9.60V	4896	3307	2640	1656	936.0	364.7	247.7	137.9	72.58

### TERMINAL POSITION



**B.B. BATTERY CO., LTD.**

Web Site: <http://www.bb-battery.com>

**USA:**  
B&B BATTERY(USA) INC.  
6415 RANDOLPH ST.COMMERCE,  
CA,90040 U.S.A.  
TEL:1-323-278-1900.1-800-278-8599  
FAX:1-323-278-1268  
E-Mail:sales@bb-battery.com

**EUROPE:**  
B&B BATTERY(EUROPE) B.V.  
3 WIJNGAARDVELD, 9300 AALST,BELGIUM  
TEL:(00)32-53781567  
FAX:(00)32-53781567  
E-Mail:hansdevriese@bb-battery.com

**CHINA FACTORY:**  
B.B. BATTERY CO., LTD.  
CHENG DONG TRIAL AREA,HUANG GANG,  
RAOPING, GUANG DONG,CHINA,515700  
TEL:86-768-7601001-2  
FAX:86-768-7601469  
E-Mail:maggy@bb-battery.com

**HONG KONG:**  
NATIONAL TRADING LTD.  
TEL:852-2301-3800  
FAX:852-2739-1182  
E-Mail:bbhk@hkstar.com

**JAPAN:**  
B&B BATTERY(JAPAN) CO., LTD.  
1375-11 NARAHARA-MACHI,HACHIOJI,  
TOKYO 193-0803,JAPAN.  
TEL:81-426-25-6375  
FAX:81-426-25-6375  
E-Mail:miyata@bb-battery.com

**TAIWAN:**  
B.B. BATTERY(TAIWAN) CO., LTD.  
TEL:886-6-502-5150  
FAX:886-6-589-8087  
E-Mail:maggy@bb-battery.com

