



# Valve Regulated Lead-Acid Rechargeable Battery



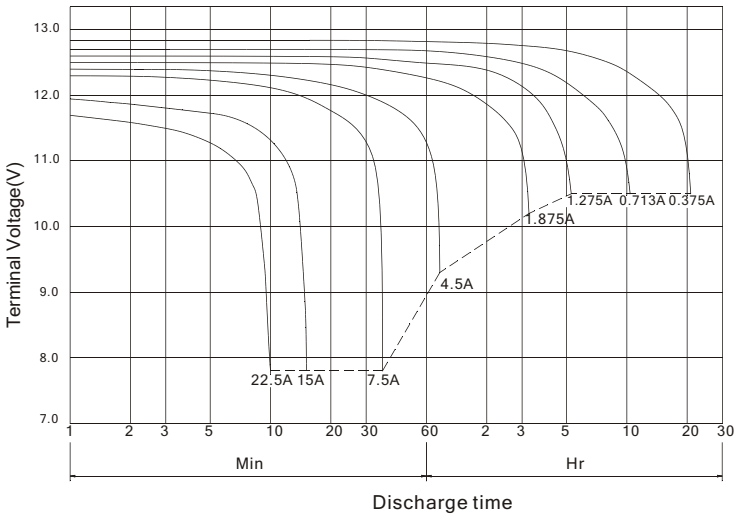
## BP7.5-12

The battery is constructed by plates, separators, safety valves and container. Since the electrolyte is held by a glass-mat separator and plates, the battery can be used in any direction and position without leakage.

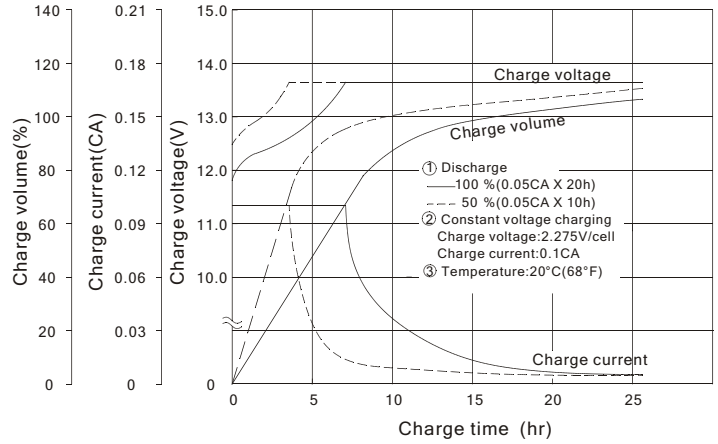
### PERFORMANCE SPECIFICATIONS

|   |                            |
|---|----------------------------|
| Nominal Voltage(V).....   | 12 volts(6cells in series) |
| Nominal Capacity(Ah)  |                            |
| 20 hour rate F.V.(1.75V/cell)( 375mA to 10.50volts) .....                                       | 7.50Ah                     |
| 10 hour rate F.V.(1.75V/cell)( 713mA to 10.50volts).....  | 7.13Ah                     |
| 5 hour rate F.V.(1.75V/cell)( 1275mA to 10.50volts) .....                                       | 6.38Ah                     |
| 1 hour rate F.V.(1.55V/cell)( 4500mA to 9.30volts).....   | 4.50Ah                     |
| Approximate Weight.....   | 2650g(5.84lbs.)            |
| Terminal  |                            |
| Standard.....   | Type T2                    |
| Optional.....   | Type T1                    |
| Internal Resistance (Fully Charged Battery).....  | <25mΩ                      |
| Maximum Discharge Current For 5 sec.(A).....  | 112.5A                     |
| Maximum Charge Current(A).....  | 2.25A                      |
| 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)    |
| Vibration test:   |                            |
| Frequency: 16.7Hz   |                            |
| Amplitude: 4mm  |                            |
| Vibrate the battery horizontally or vertically for 60 minutes. The battery have no abnormality. |                            |
| Case.....   | ABS                        |
| Dimension(mm/inch)  |                            |
| Length           ±1.5mm.....  | 151/5.94                   |
| Width           ±1.5mm.....   | 65/2.56                    |
| Container Height±1.5mm.....   | 94/3.70                    |
| Total Height   ±2mm.....  | 100/3.94                   |
| Application.....  | UPS, Laboratory Equipment  |

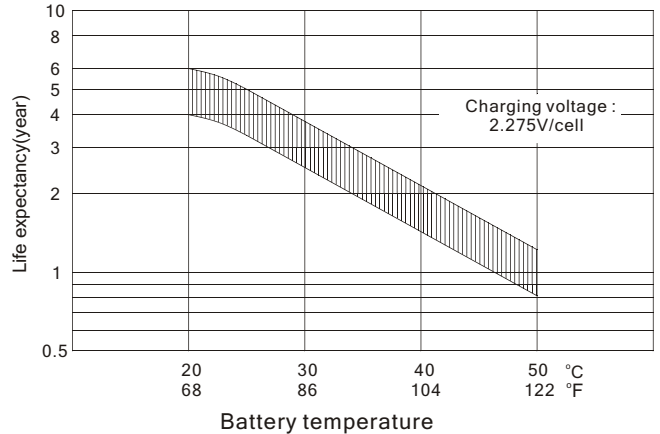
## BP7.5-12 Battery discharge characteristics (25°C/77°F)



## Battery Charging Characteristics (Typical example of the charge characteristics for the standby use)



## Effect of Temperature on Long Term Float Life

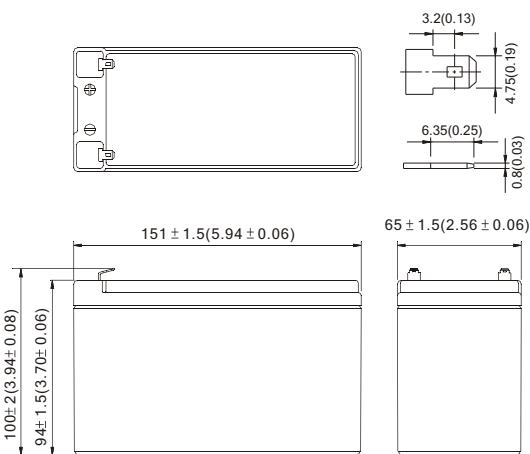


## Charging Procedure

| 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)<br>(32~104°F) |
|--------------------------|---|-----------------------------------|---|----------------------------|-------------------------------|---------------|-------------------------|
|                          |   |                                   |   |                            | 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<br>(32~104°F)      |
| For cycle service        |   | 2.40~2.50                         | -4  | 0.3                        | 16                            | 10            |                         |

## TERMINAL TYPE mm(inch)

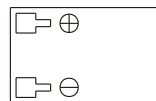
### OUTER DIMENSIONS



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

| Final Voltage | Discharge time          |       |       |       |       |       |       |      |      |
|---------------|-------------------------|-------|-------|-------|-------|-------|-------|------|------|
|               | 5Min                    | 10Min | 15Min | 30Min | 1Hr   | 3Hr   | 5Hr   | 10Hr | 20Hr |
|               | Battery output power(W) |       |       |       |       |       |       |      |      |
| 10.80V        | 271.2                   | 199.6 | 160.0 | 95.2  | 54.59 | 21.86 | 15.07 | 8.42 | 4.43 |
| 10.50V        | 313.9                   | 216.3 | 167.3 | 98.8  | 56.22 | 22.30 | 15.30 | 8.55 | 4.50 |
| 10.20V        | 333.5                   | 224.0 | 172.5 | 101.1 | 57.23 | 22.50 | 15.38 | 8.59 | 4.52 |
| 9.90V         | 348.5                   | 229.4 | 176.5 | 102.5 | 57.92 | 22.66 | 15.44 | 8.62 | 4.54 |
| 9.60V         | 360.0                   | 234.0 | 180.0 | 103.5 | 58.50 | 22.79 | 15.48 | 8.62 | 4.54 |

## 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

