



# Valve Regulated Lead-Acid Rechargeable Battery



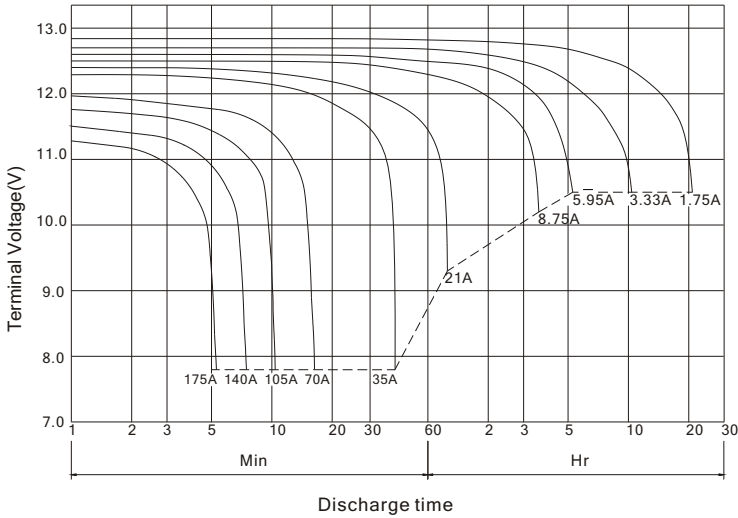
## EVP35-12

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

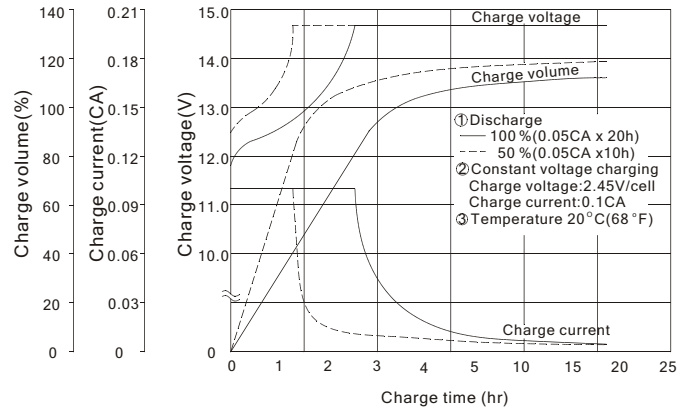
|   |   |
|---|---|
| Nominal Voltage(V).....   | 12 volts(6cells in series)  |
| Nominal Capacity(AH)  |   |
| 20 Hour rate F.V.(1.75V/cell) (1.75A to 10.50volts) .....                                       | 35.0A.H.  |
| 5 Hour rate F.V.(1.75V/cell) (5.95A to 10.50volts) .....  | 29.8A.H.  |
| 30 Min rate F.V.(1.30V/cell) (43.75A to 7.80volts).....   | 21.9A.H.  |
| Approximate Weight.....   | 12.50kg(27.571lbs.)   |
| Terminal  |   |
| Standard.....   | Type B7   |
| Optional.....   | Type I2   |
| Internal Resistance (Fully Charged Battery).....  | <6m Ω   |
| Maximum Discharge Current For 5 sec.(A).....  | 525A  |
| Maximum Charge Current(A).....  | 10.5A   |
| 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.....  | 210/8.27  |
| Width       ±1.5mm.....   | 129/5.08  |
| Container Height ±1.5mm.....  | 168/6.61  |
| Total Height   ±2mm.....  | 179/7.05  |
| Application.....  | Wheelchairs, Lawn Mowers, Electronic Medical Equipment, Golf-Carts. |

## EVP35-12 Battery discharge characteristics (25 °C/77 °F)



## Battery Charging Characteristics

(Typical example of the charge characteristic for the cycle use)



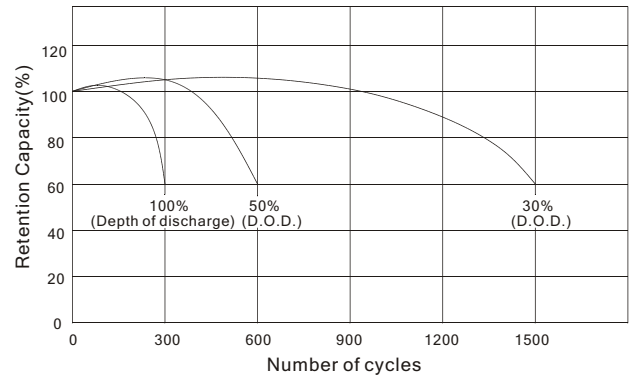
## Charging Procedure

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

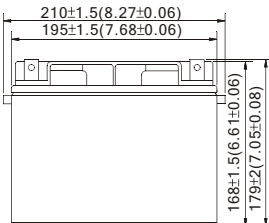
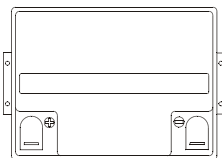
\*Temperature compensation of charging voltage is not needed, when using the batteries within 5 °C to 35 °C range.

## Battery Life Characteristics of Cyclic Use

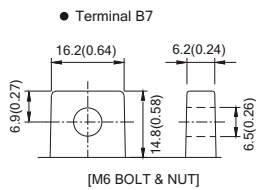
Testing Conditions : Discharge Current : 1C Amp (F.V. 1.60V/cell)  
 Charging Current : 0.1C Amp  
 Charging Volume : 120% OF Discharge Capacity  
 Ambient Temperature : 20 °C (68 °F)



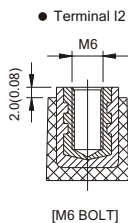
## OUTER DIMENSIONS



## TERMINAL TYPE mm (inch)



[M6 BOLT & NUT]

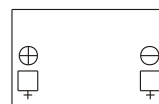


[M6 BOLT]

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

| Final Voltage | Discharge time          |       |       |       |       |     |       |      |      |
|---------------|-------------------------|-------|-------|-------|-------|-----|-------|------|------|
|               | 5Min                    | 10Min | 15Min | 30Min | 45Min | 1Hr | 3Hr   | 5Hr  | 10Hr |
|               | Battery output power(W) |       |       |       |       |     |       |      |      |
| 10.80V        | 1503                    | 1065  | 806   | 475   | 340   | 274 | 110   | 70   | 39.2 |
| 10.50V        | 1740                    | 1154  | 846   | 495   | 355   | 283 | 113   | 71.4 | 40   |
| 10.20V        | 1849                    | 1200  | 871   | 508   | 362   | 289 | 115   | 72.1 | 40.2 |
| 9.90V         | 1932                    | 1227  | 891   | 518   | 367   | 292 | 116   | 72.5 | 40.3 |
| 9.60V         | 1996                    | 1249  | 907   | 525   | 371   | 294 | 116.5 | 72.7 | 40.3 |

## 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

