

## EVX SERIES

BSB EVX Series batteries are designed to have a large amount of stored current discharged between charging sessions, with very heavy non-porous battery plates to withstand repeated major discharging and charging cycle (deep cycles). The BSB EVX batteries uses a different chemistry for the plates active paste material, and a slightly stronger electrolyte than normal battery electrolyte, which allows for a much longer life in deep cycle applications.

## Application

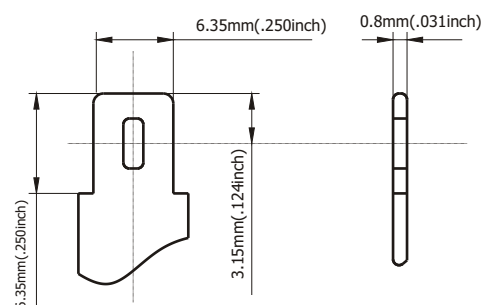
- Electric Powered Vehicles
- Golf Cars and Buggies
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS
- Pvs

## General Features

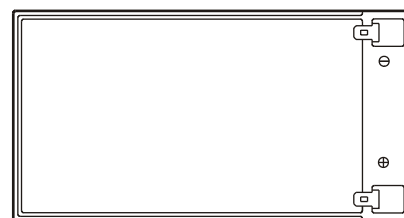
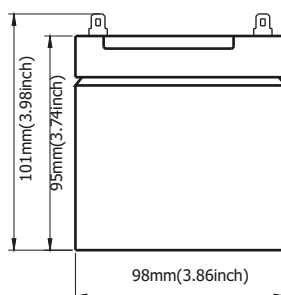
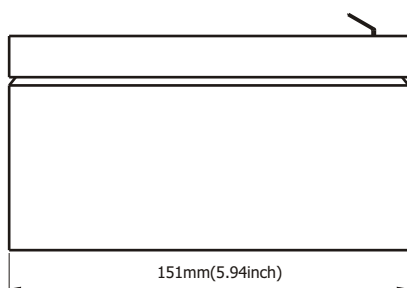
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.
- Flexibility design for multiple install positions.

## Construction

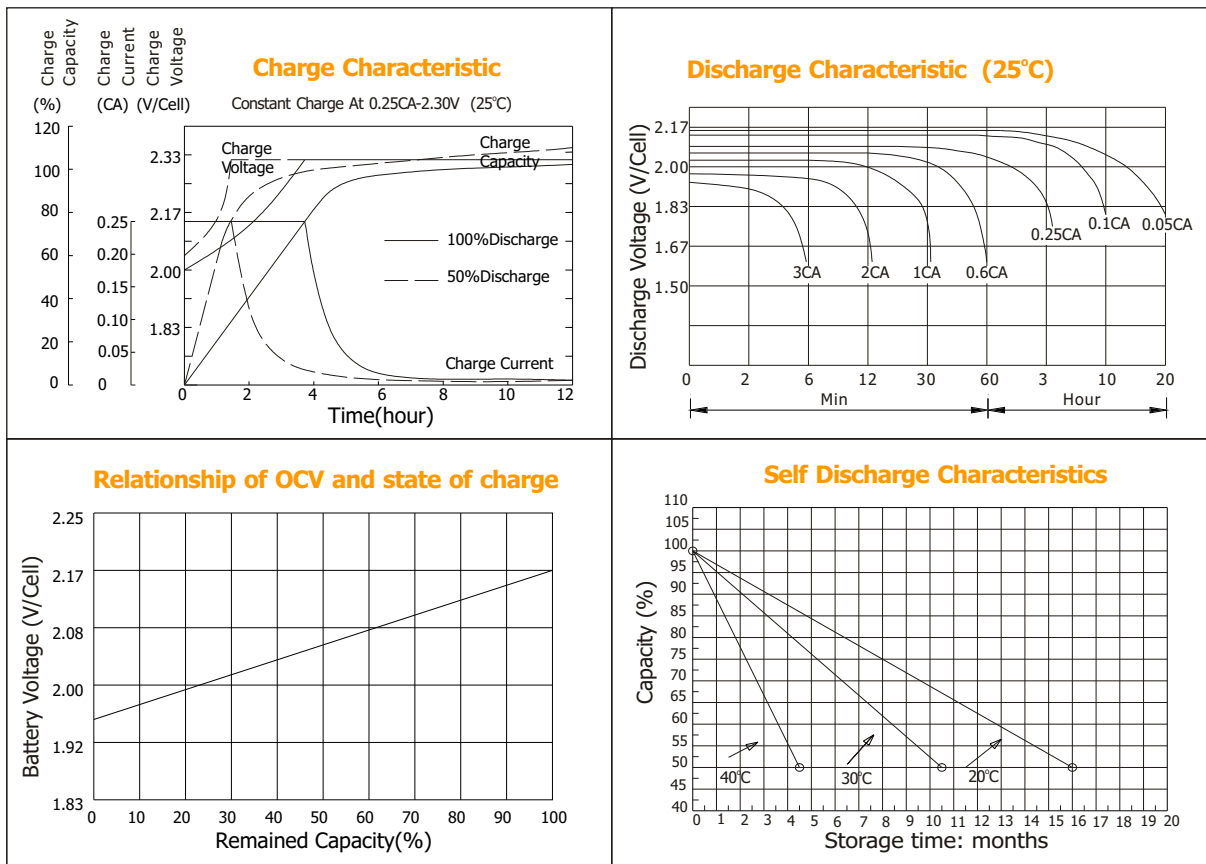
- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy Resin
- Safety valve ....EPDR
- Terminal .....Copper
- Separator .....Fibre glass
- Electrolyte .....Sulfuric acid



Terminal Dimensions



| Battery Model                    | EVX12-12                                    |                  |                       |                 |
|----------------------------------|---------------------------------------------|------------------|-----------------------|-----------------|
| Designed Floating Life           | > 350 cycles @ 100% DOD                     |                  |                       |                 |
| Capacity(25°C)                   | 20HR(0.7A,1.75V)                            | 10HR(1.3A,1.75V) | 2HR(5.0A,1.75V)       | 1HR(9A,1.75V)   |
|                                  | 14AH                                        | 13AH             | 12AH                  | 9AH             |
| Dimensions                       | Length                                      | Width            | Height                | Total Height    |
|                                  | 151mm(5.94inch)                             | 98mm(3.86inch)   | 95mm(3.74inch)        | 101mm(3.98inch) |
| Approx. Weight                   | 4.2Kg (9.26 lbs)                            |                  |                       |                 |
| Internal Resistance              | Full charged at 25°C: 0.014 Ohm             |                  |                       |                 |
| Self Discharge                   | 3% of capacity declined per month at (25°C) |                  |                       |                 |
| Capacity Affected by Temp.(20HR) | 40°C                                        | 25°C             | 0°C                   | -15°C           |
|                                  | 102%                                        | 100%             | 85%                   | 65%             |
| Charge Voltage(25°C)             | Cycle use                                   |                  | Float use             |                 |
|                                  | 14.4-15V(-30mV/ °C), max. Current: 3.6A     |                  | 13.6-13.8V(-20mV/ °C) |                 |



## Constant current discharge ratings-amperes at 25°C

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR | 20HR |
|----------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V    | 54.7 | 34.0  | 25.7  | 15.7  | 9.95 | 4.37 | 2.67 | 1.39 | 0.79 |
| 1.67V    | 51.3 | 32.3  | 24.7  | 15.0  | 9.82 | 4.20 | 2.61 | 1.37 | 0.76 |
| 1.70V    | 47.0 | 31.1  | 24.1  | 13.6  | 9.52 | 3.92 | 2.56 | 1.37 | 0.75 |
| 1.75V    | 46.1 | 30.1  | 23.3  | 12.9  | 9.07 | 3.79 | 2.50 | 1.35 | 0.73 |
| 1.80V    | 41.3 | 28.8  | 21.2  | 12.0  | 8.49 | 3.64 | 2.35 | 1.33 | 0.71 |
| 1.85V    | 36.4 | 27.4  | 19.1  | 11.0  | 7.91 | 3.51 | 2.20 | 1.31 | 0.69 |

## Constant power discharge ratings-watts at 25°C

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR | 20HR |
|----------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V    | 95.9 | 61.4  | 46.9  | 28.2  | 18.0 | 7.75 | 4.51 | 2.77 | 1.57 |
| 1.67V    | 92.6 | 59.9  | 46.3  | 27.6  | 17.8 | 7.50 | 4.49 | 2.76 | 1.51 |
| 1.70V    | 87.2 | 59.3  | 45.9  | 25.9  | 17.5 | 7.17 | 4.43 | 2.74 | 1.49 |
| 1.75V    | 87.7 | 59.1  | 45.5  | 25.1  | 17.2 | 7.00 | 4.39 | 2.70 | 1.46 |
| 1.80V    | 80.3 | 58.2  | 42.2  | 23.9  | 16.2 | 6.79 | 4.26 | 2.67 | 1.42 |
| 1.85V    | 72.8 | 55.3  | 38.3  | 22.4  | 15.3 | 6.59 | 4.12 | 2.63 | 1.36 |

