

### 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

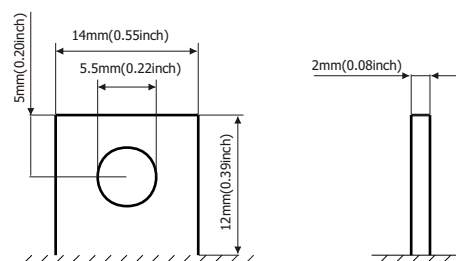
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS
- Pvs

### General Features

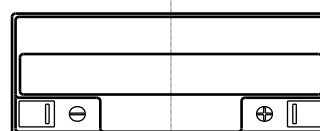
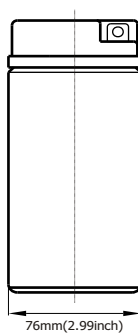
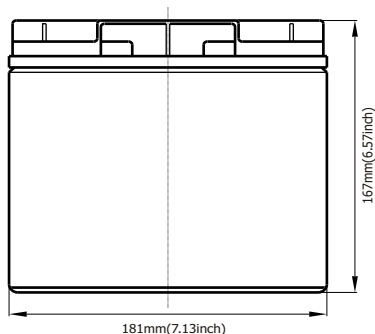
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

### Construction

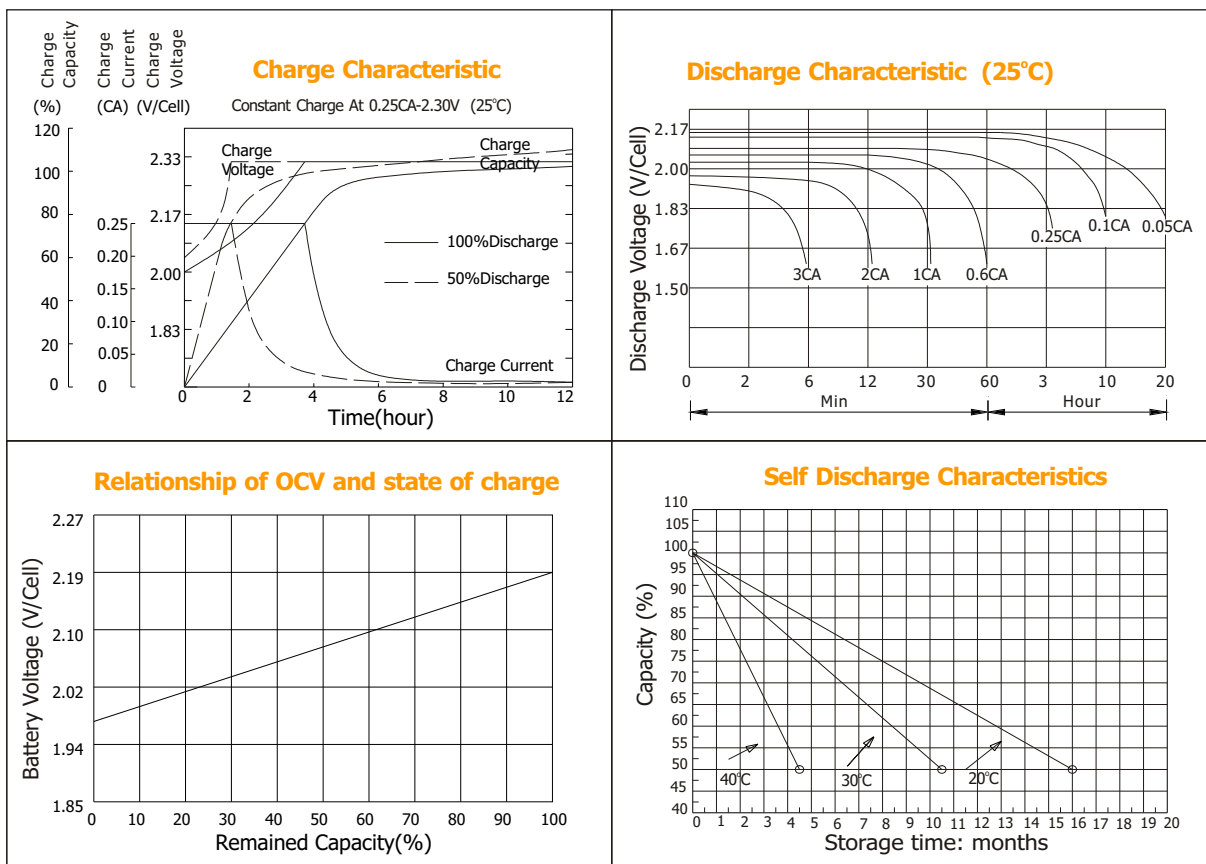
- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy Resin
- Safety valve ....EPDR
- Terminal .....Copper
- Separator .....Fibre glass
- Electrolyte .....Sulfuric acid



Terminal Dimensions



| Battery Model                    | EVX12-22                                    |                  |                       |                  |
|----------------------------------|---------------------------------------------|------------------|-----------------------|------------------|
| Designed Floating Life           | > 350 cycles @ 100% DOD                     |                  |                       |                  |
| Capacity(25°C)                   | 20HR(1.2A,1.75V)                            | 10HR(2.2A,1.75V) | 5HR(4A,1.75V)         | 1HR(15.5A,1.75V) |
|                                  | 24AH                                        | 22AH             | 20AH                  | 15.5AH           |
| Dimensions                       | Length                                      | Width            | Height                | Total Height     |
|                                  | 181mm(7.13inch)                             | 76mm(2.99inch)   | 167mm(6.57inch)       | 167mm(6.57inch)  |
| Approx. Weight                   | 6.85Kg (15.1 lbs)                           |                  |                       |                  |
| Internal Resistance              | Full charged at 25°C: 0.013 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: 6.6A     |                  | 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    | 85.9 | 53.5  | 40.3  | 24.6  | 15.6 | 6.86 | 4.19 | 2.35 | 1.23 |
| 1.67V    | 80.7 | 50.7  | 38.8  | 23.5  | 15.4 | 6.60 | 4.11 | 2.32 | 1.19 |
| 1.70V    | 73.9 | 48.9  | 37.9  | 21.4  | 15.0 | 6.16 | 4.02 | 2.31 | 1.17 |
| 1.75V    | 72.5 | 47.4  | 36.7  | 20.3  | 14.3 | 5.95 | 3.93 | 2.28 | 1.15 |
| 1.80V    | 64.8 | 45.2  | 33.3  | 18.8  | 13.3 | 5.72 | 3.70 | 2.25 | 1.13 |
| 1.85V    | 57.2 | 43.1  | 29.9  | 17.3  | 12.4 | 5.51 | 3.46 | 2.22 | 1.11 |

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

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR | 20HR |
|----------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V    | 151  | 96.6  | 73.6  | 44.3  | 28.2 | 12.2 | 7.09 | 4.69 | 2.46 |
| 1.67V    | 145  | 94.1  | 72.7  | 43.4  | 28.0 | 11.8 | 7.06 | 4.66 | 2.38 |
| 1.70V    | 137  | 93.2  | 72.1  | 40.6  | 27.5 | 11.3 | 6.97 | 4.63 | 2.35 |
| 1.75V    | 138  | 92.9  | 71.5  | 39.4  | 27.0 | 11.0 | 6.91 | 4.58 | 2.29 |
| 1.80V    | 126  | 91.5  | 66.3  | 37.6  | 25.5 | 10.7 | 6.69 | 4.52 | 2.23 |
| 1.85V    | 114  | 86.8  | 60.1  | 35.2  | 24.0 | 10.4 | 6.48 | 4.46 | 2.14 |

