



**EVX series**  
**EVX 12120 12V12AH**



**Valve Regulated Lead Acid Battery**

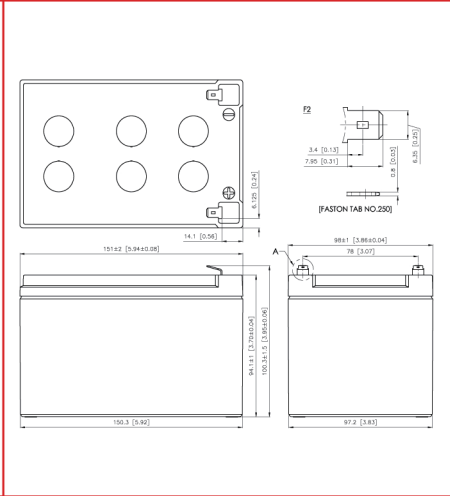
Maintenance-Free Sealed Lead Acid Battery.  
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

**Design for Cyclic Applications**

|   |  |
|---|--|
| <p><b>【Design Life】</b><br/>400 cycles @ 100%DOD at 25°C<br/>1800 cycles @ 30%DOD at 25°C</p> <p><b>【Operating Temperature Range】</b><br/>Nominal Operating Temperature : 25°C (77°F)<br/>Discharge : -15°C ~ 50°C (5°F~122°F)<br/>Charge: -15°C ~ 40°C (5°F~104°F)<br/>Storage: -15°C ~ 40°C (5°F~104°F)</p> | <p><b>【Equalization Charging Voltage】</b><br/>14.4 ~ 15.0 VDC/Unit at 25°C (77°F)</p> <p><b>【Self Discharge】</b><br/>Less than 10% after 90 days, can be stored up to 6 months at 25°C (77°F); Fully recharging is required before usage, and charged sooner if stored at higher temperature than 25°C (77°F).</p> |
|---|--|

**Specification**

|                           |   |              |                |
|---------------------------|---|--------------|----------------|
| Nominal Voltage           | 12V (6 cells per unit)                          |              |                |
| Nominal Capacity          | 12 AH @20HR-rate to 1.75V per cell @25°C (77°F) |              |                |
| Weight                    | Approx. 3.83 Kg (8.44 lbs)                      |              |                |
| Maximum Discharge Current | 150/180A (5sec)                                 |              |                |
| Internal Resistance       | Approx. 15.4 mΩ                                 |              |                |
| Short Circuit Current     | --  |              |                |
| Maximum Charge Current    | 3.60A   |              |                |
| Terminal types            | F1/F2-Faston Tab187/250                         |              |                |
| Terminal Breaking Torque  | --  |              |                |
| Container Material        | ABS (UL 94-HB)                                  |              |                |
| Dimensions                | Length (L)                                      | 151.0±2.0 mm | 5.94±0.08 inch |
|                           | Width (W)                                       | 98.0±1.0 mm  | 3.86±0.04 inch |
|                           | Container Height (h)                            | 94.1±1.0 mm  | 3.70±0.04 inch |
|                           | Overall Height (H)                              | 100.3±1.5 mm | 3.95±0.06 inch |



**Constant Current Discharge Characteristics Unit: A (25°C, 77°F)**

| F.V/Time | 30MIN | 45MIN | 60MIN | 90MIN | 2HR  | 3HR  | 4HR  | 5HR  | 6HR  | 8HR  | 10HR | 20HR |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.60V    | 12.8  | 9.38  | 7.52  | 5.46  | 4.32 | 3.14 | 2.45 | 2.06 | 1.75 | 1.36 | 1.13 | 0.66 |
| 1.67V    | 12.7  | 9.30  | 7.45  | 5.45  | 4.29 | 3.10 | 2.44 | 2.05 | 1.74 | 1.35 | 1.12 | 0.63 |
| 1.70V    | 12.6  | 9.23  | 7.40  | 5.41  | 4.28 | 3.09 | 2.43 | 2.04 | 1.73 | 1.34 | 1.11 | 0.62 |
| 1.75V    | 12.4  | 9.14  | 7.36  | 5.36  | 4.25 | 3.07 | 2.41 | 2.01 | 1.71 | 1.33 | 1.09 | 0.60 |
| 1.80V    | 12.0  | 8.89  | 7.18  | 5.28  | 4.17 | 3.00 | 2.38 | 1.99 | 1.70 | 1.32 | 1.07 | 0.59 |
| 1.85V    | 11.3  | 8.46  | 6.89  | 5.08  | 3.99 | 2.90 | 2.30 | 1.92 | 1.64 | 1.27 | 1.04 | 0.57 |

**Constant Power Discharge Characteristics Unit: W (25°C, 77°F)**

| F.V/Time | 30MIN | 45MIN | 60MIN | 90MIN | 2HR  | 3HR  | 4HR  | 5HR  | 6HR  | 8HR  | 10HR | 20HR |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.60V    | 146   | 107   | 86.1  | 63.4  | 50.5 | 36.8 | 29.3 | 24.4 | 20.8 | 16.2 | 13.4 | 7.13 |
| 1.67V    | 146   | 107   | 85.7  | 62.9  | 50.1 | 36.6 | 29.1 | 24.3 | 20.7 | 16.1 | 13.3 | 7.09 |
| 1.70V    | 144   | 106   | 85.2  | 62.7  | 50.0 | 36.4 | 28.9 | 24.2 | 20.6 | 16.0 | 13.2 | 7.06 |
| 1.75V    | 143   | 105   | 84.9  | 62.3  | 49.5 | 36.2 | 28.8 | 23.9 | 20.4 | 15.9 | 13.1 | 7.01 |
| 1.80V    | 140   | 103   | 83.5  | 61.2  | 49.0 | 35.7 | 28.5 | 23.7 | 20.2 | 15.7 | 12.9 | 6.87 |
| 1.85V    | 132   | 98.5  | 80.0  | 59.4  | 47.4 | 34.5 | 27.7 | 23.0 | 19.6 | 15.2 | 12.5 | 6.66 |

Please refer to the official site for the latest rating confirmation.

**Guang dong Xi shibi Power Co ., Ltd.**

Tel: +86 20 34628335  
Fax: 626-453-0409  
E-mail: csbusa@battery.com

