



# XTV series XTV 121000



## Valve Regulated Lead Acid Battery

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

### General Design for Standby Power Applications at Extreme Temperatures

#### 【Design Life】

Up to 12 Years in Standby Service at 25°C  
Eurobat (20°C) : >12 YEARS VERY LONG LIFE

#### 【Operating Temperature Range】

Nominal Operating Temperature : 25°C (77°F)  
Discharge : -20°C ~ 50°C (-4°F~122°F)  
Charge: -20°C ~ 50°C (-4°F~122°F)  
Storage: -15°C ~ 40°C (5°F~104°F)

#### 【Float Charging Voltage】

13.5 ~ 13.8 VDC/Unit at 25°C (77°F)

#### 【Equalization Charging Voltage】

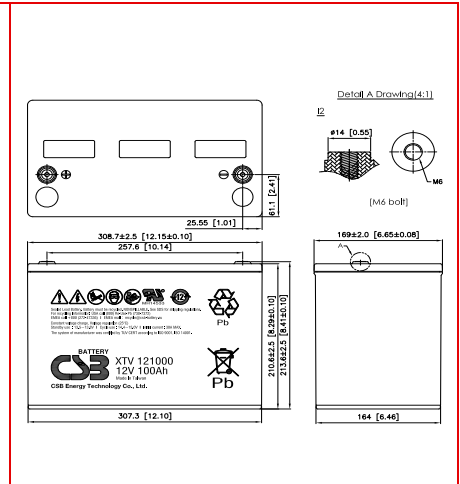
14.4 ~ 15.0 VDC/Unit at 25°C (77°F)

#### 【Self Discharge】

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).

### Specification Design according with IEC 60896-21/22:2004

|                            |  |                                   |
|----------------------------|--|-----------------------------------|
| Nominal Voltage            | 12V (6 cells per unit)   |                                   |
| Nominal Capacity           | 100 Ah @20hr-rate to 1.75V per cell @25°C (77°F)               |                                   |
| Weight                     | Approx. 30.20 Kg (66.56 lbs)                                   |                                   |
| Maximum Discharge Current  | 800A (5sec)  |                                   |
| Internal Resistance        | Approx. 4.10 mΩ  |                                   |
| Short Circuit Current      | 2258A  |                                   |
| Maximum Charge Current     | 30A  |                                   |
| Terminal types             | I2 thread lead alloy terminal to accept M6 bolt                |                                   |
| Terminal tightening torque | 138.6 Kg·cm / 120.3 Lbf·in / 13.58 N·m                         |                                   |
| Container Material         | PP (UL 94-HB) & Flame Retardant (94-V0) available upon request |                                   |
| Dimensions                 | Length (L)   | 308.7±2.5 mm      12.15±0.10 inch |
|                            | Width (W)  | 169.0±2.0 mm      6.65±0.08 inch  |
|                            | Container Height (h)   | 210.6±2.5 mm      8.29±0.10 inch  |
|                            | Overall Height (H)   | 213.6±2.5 mm      8.41±0.10 inch  |
|                            |  |                                   |



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

| F.V/Time | 5 MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR |
|----------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V    | 371   | 259   | 194   | 116   | 67.8  | 48.9  | 38.7 | 27.7 | 17.7 | 11.6 | 9.54 | 5.05 |
| 1.67V    | 328   | 242   | 188   | 114   | 67.2  | 48.7  | 38.4 | 27.4 | 17.5 | 11.5 | 9.47 | 5.02 |
| 1.70V    | 309   | 231   | 184   | 113   | 66.7  | 48.3  | 38.0 | 27.3 | 17.4 | 11.4 | 9.45 | 5.01 |
| 1.75V    | 282   | 212   | 173   | 110   | 65.5  | 47.7  | 37.6 | 26.9 | 17.3 | 11.3 | 9.38 | 5.00 |
| 1.80V    | 243   | 193   | 157   | 104   | 63.0  | 46.3  | 36.5 | 26.1 | 16.8 | 11.2 | 9.16 | 4.84 |
| 1.85V    | 191   | 170   | 138   | 96.9  | 59.1  | 43.8  | 34.6 | 25.2 | 16.1 | 10.7 | 8.82 | 4.63 |

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

| F.V/Time | 5 MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 5HR | 8HR | 10HR | 20HR |
|----------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|------|------|
| 1.60V    | 3591  | 2638  | 2095  | 1307  | 778   | 569   | 450 | 323 | 211 | 138 | 114  | 59.9 |
| 1.67V    | 3382  | 2513  | 2029  | 1286  | 775   | 567   | 447 | 321 | 210 | 137 | 113  | 59.6 |
| 1.70V    | 3268  | 2445  | 1987  | 1274  | 771   | 564   | 445 | 319 | 209 | 136 | 112  | 59.3 |
| 1.75V    | 2932  | 2308  | 1880  | 1245  | 761   | 557   | 440 | 316 | 207 | 135 | 111  | 59.0 |
| 1.80V    | 2572  | 2149  | 1727  | 1192  | 735   | 545   | 429 | 308 | 203 | 133 | 110  | 58.1 |
| 1.85V    | 2255  | 1872  | 1546  | 1125  | 695   | 519   | 412 | 297 | 194 | 129 | 105  | 55.9 |

Please refer to the official site for the latest rating confirmation. URL: [www.csb-battery.com](http://www.csb-battery.com)

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### Sales Offices

希世比能源科技股份有限公司  
CSB Energy Technology Co., Ltd.

#### BUSINESS HEADQUARTERS

Tel: +886-2-2880-5600  
Fax: +886-2-2888-3300

#### USA OFFICE

Tel: +1-817-244-7777 / 1-(800)3-CSB-USA (272872)  
Fax: +1-817-244-4445

#### SHENZHEN OFFICE (CHINA)

Tel: +86-755-8831-6488/6775/6075  
Fax: +86-755-8831-6548

#### EUROPE (EMEA) OFFICE

Tel: +31(0)180-418-140  
Fax: +31(0)180-418-327

#### SHANGHAI OFFICE (CHINA)

Tel: +86-21-5046-1622/0833/0094  
Fax: +86-21-5046-1046

Recognized under UL 1989,  
and certified by ISO 9001, 14001, 45001, 50001.



#### TAIPEI OFFICE

Tel: +886-2-2880-5600  
Fax: +886-2-2888-3300

#### BEIJING OFFICE (CHINA)

Tel: +86-10-6597-8065/8165/8265  
Fax: +86-10-6597-8565