

Powered by



EVX 12520 ▶ 12V 52Ah

EVX 12520 is designed specially for electric vehicles, such as electric golf cart, electric wheelchair, mower, dust collector...etc. It has high cycling life, high efficiency and long service life.



► Specification

| | |
|--|---|
| Cells Per Unit | 6 |
| Voltage Per Unit | 12 |
| Capacity | 52Ah @ 20hr-rate to 1.75V per cell @25 °C (77°F) |
| Weight | Approx. 18.3 kg (40.35 lbs) |
| Maximum Discharge Current | 500A(5sec) |
| Internal Resistance | Approx. 5.5 mΩ |
| Operating Temperature Range | Discharge: -15°C~50°C (5°F~122°F) Charge: -15 °C~40°C (5°F~104°F) Storage: -15°C~40°C (5°F~104°F) |
| Nominal Operating Temperature Range | 25°C±3°C (77°F±5°F) |
| Float Charging Voltage | 13.5 to 13.8 VDC/unit Average at 25°C (77°F) |
| Recommended Maximum Charging Current Limit | 15.6 A |
| Equalization and Cycle Service | 14.4 to 15.0 VDC/unit Average at 25°C (77°F) |
| Self Discharge | CSB Batteries can be stored for more than 6 months at 25°C (77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter. |
| Terminal | B4-L terminal to accept M6 nut & bolt |
| Container Material | Polypropylene(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request. |

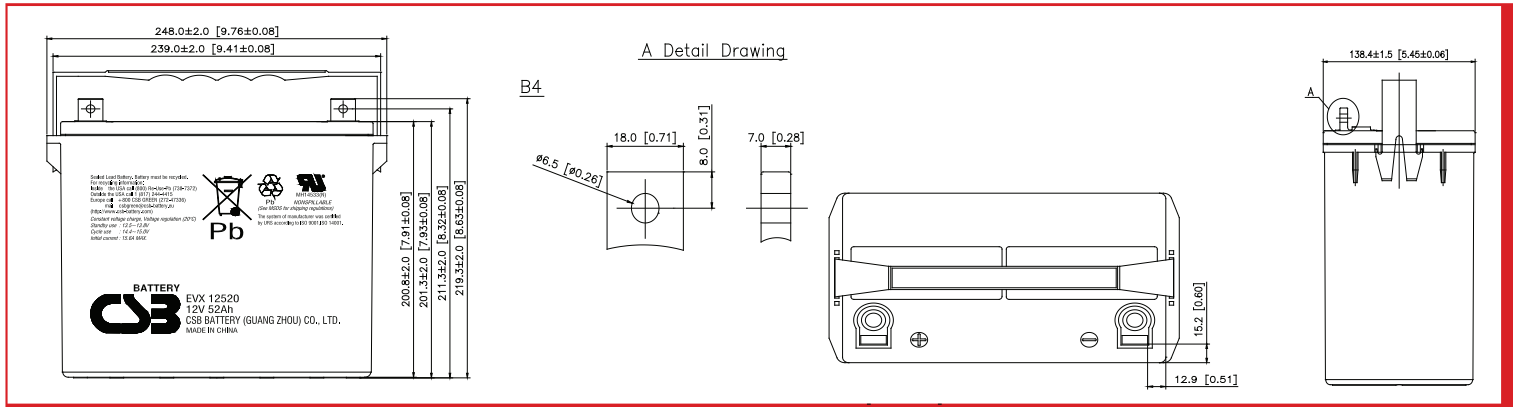


CSB-manufactured **VRLA** (Absorbent **G**lass **M**at type) batteries are UL-recognized components under UL1989.

CSB is also certified by ISO 9001 and ISO 14001.

► Dimensions :

| Overall Height (H) | Container height (h) | Length (L) | Width (W) |
|-----------------------|-----------------------|-----------------------|-----------------------|
| 219.3±2.0 (8.63±0.08) | 201.3±2.0 (7.93±0.08) | 248.0±2.0 (9.76±0.08) | 138.4±1.5 (5.45±0.06) |



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

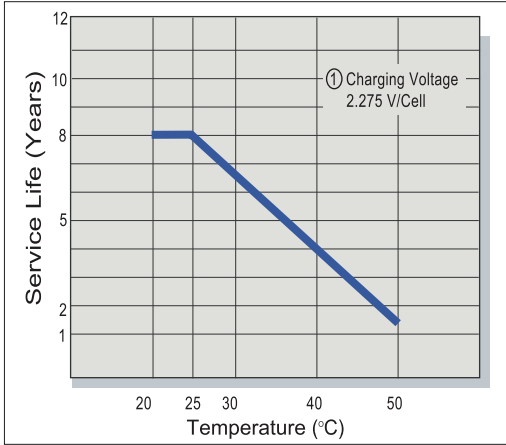
| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|----------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.60V | 64.9 | 36.8 | 27.0 | 21.0 | 14.8 | 11.7 | 9.60 | 6.60 | 5.42 | 2.84 |
| 1.67V | 63.5 | 36.4 | 26.8 | 20.8 | 14.6 | 11.6 | 9.52 | 6.52 | 5.36 | 2.80 |
| 1.70V | 62.1 | 35.8 | 26.5 | 20.6 | 14.5 | 11.5 | 9.45 | 6.45 | 5.29 | 2.76 |
| 1.75V | 60.6 | 35.2 | 26.1 | 20.3 | 14.3 | 11.4 | 9.37 | 6.34 | 5.21 | 2.72 |
| 1.80V | 59.2 | 34.7 | 25.6 | 20.1 | 14.2 | 11.3 | 9.26 | 6.22 | 5.12 | 2.68 |
| 1.85V | 57.8 | 34.2 | 25.1 | 19.9 | 14.1 | 11.2 | 9.16 | 6.11 | 5.03 | 2.62 |

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

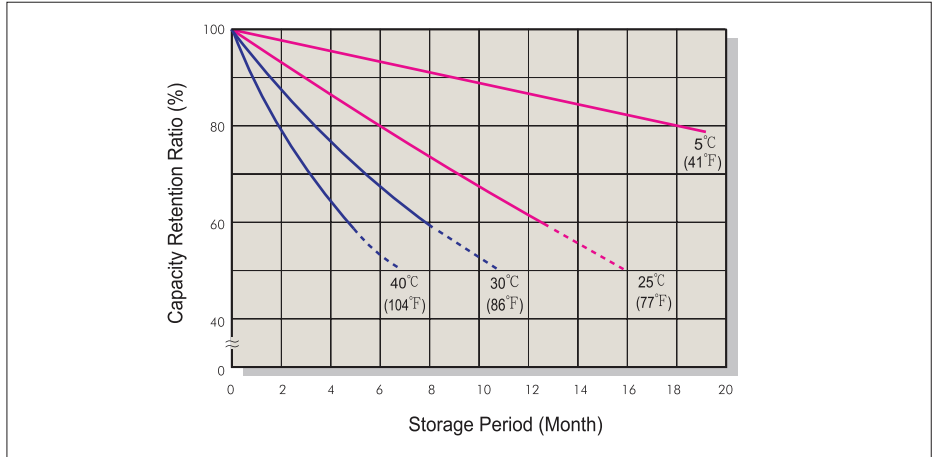
| F.V/Time | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|----------|-------|-------|-------|-----|-----|-----|------|------|------|------|
| 1.60V | 668 | 386 | 284 | 221 | 154 | 124 | 102 | 70.9 | 58.7 | 33.6 |
| 1.67V | 656 | 382 | 281 | 219 | 153 | 123 | 101 | 70.2 | 58.1 | 33.1 |
| 1.70V | 645 | 378 | 277 | 217 | 152 | 122 | 100 | 69.4 | 57.4 | 32.5 |
| 1.75V | 631 | 372 | 273 | 214 | 151 | 121 | 99.0 | 68.6 | 56.7 | 31.8 |
| 1.80V | 615 | 368 | 269 | 212 | 150 | 120 | 98.1 | 67.6 | 55.8 | 31.1 |
| 1.85V | 598 | 363 | 264 | 209 | 149 | 119 | 97.0 | 66.1 | 54.8 | 30.4 |

Ratings presented herein are subject to revision without notice. Please refer to www.csb-battery.com to confirm the latest version.

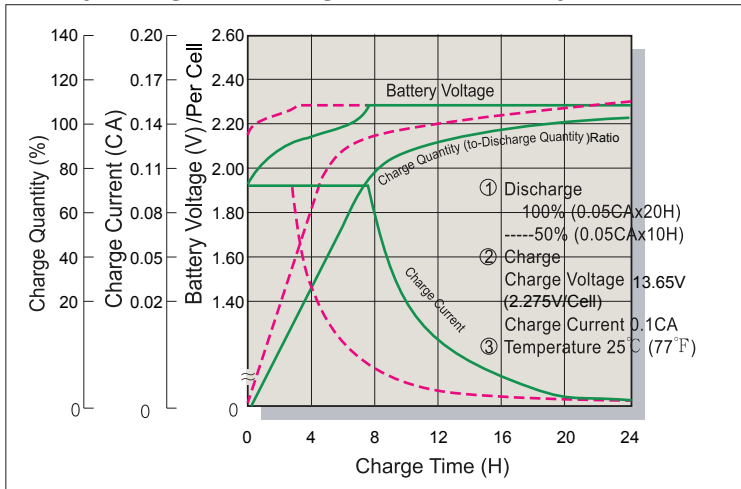
Trickle (or Float) Service Life



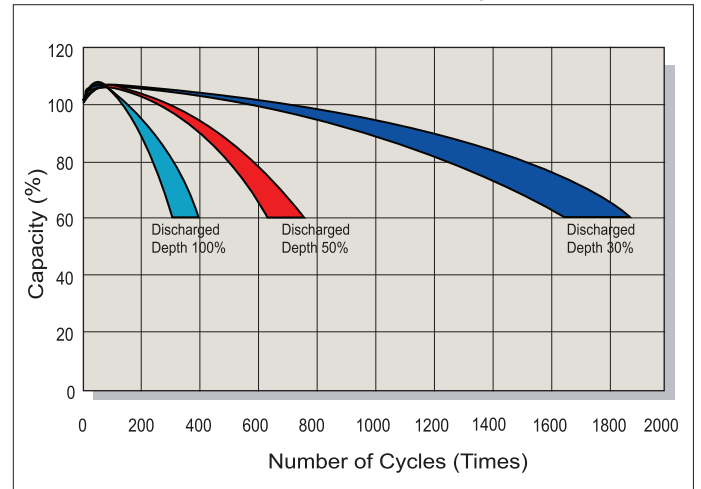
Capacity Retention Characteristic



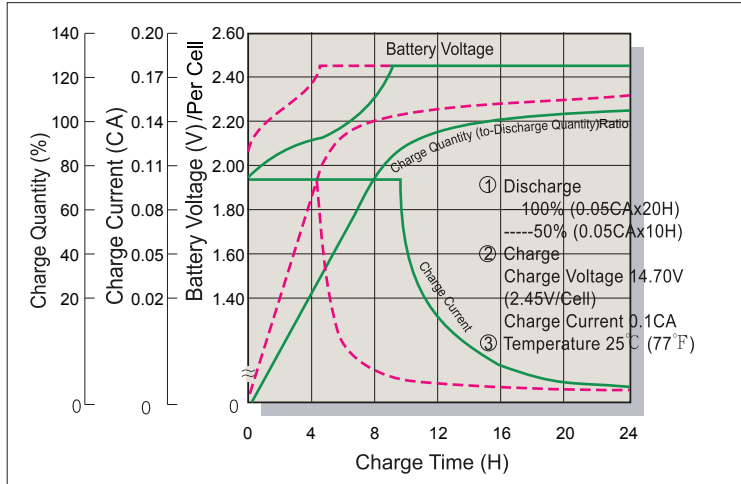
Battery Voltage and Charge Time for Standby Use



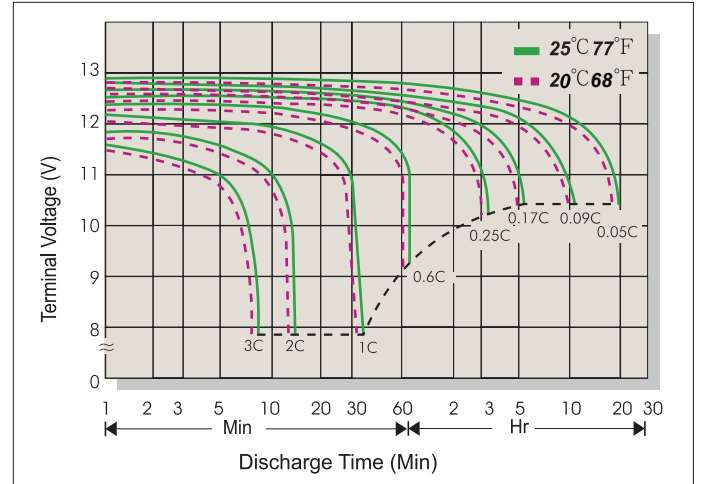
Series Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



Charging Procedures

| Application | Charge Voltage(V/Cell) | | | Max.Charge Current |
|-------------|------------------------|-----------|-----------------|--------------------|
| | Temperature | Set Point | Allowable Range | |
| Cycle Use | 25°C(77°F) | 2.45 | 2.40~2.50 | 0.3C |
| Standby | 25°C(77°F) | 2.275 | 2.25~2.30 | |

Discharge Current VS. Discharge Voltage

| | | | | |
|--------------------------------|----------|---------------|---------------|----------|
| Final Discharge Voltage V/Cell | 1.75 | 1.70 | 1.60 | 1.30 |
| Discharge Current(A) | 0.2C>(A) | 0.2C<(A)<0.5C | 0.5C<(A)<1.0C | (A)>1.0C |

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