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# GP 1272 ▶ 12V 7.2Ah

GP 1272 is a general purpose battery up to 5 years in standby service or more than 260 cycles at 100% discharge in cycle service. As with all CSB batteries, all are rechargeable, highly efficient, leak proof and maintenance free.



## ► Specification

|  |  |
|--|--|
| Cells Per Unit                             | 6  |
| Voltage Per Unit                           | 12   |
| Capacity                                   | 7.2Ah @ 20hr-rate to 1.75V per cell @25 °C(77°F)   |
| Weight                                     | Approx. 2.4 kg(5.29 lbs)   |
| Maximum Discharge Current                  | 100A/130A(5sec)  |
| Internal Resistance                        | Approx. 23 mΩ  |
| Operating Temperature Range                | 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)  |
| 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 | 2.16A  |
| 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                                   | F1/F2-Faston Tab187/250  |
| Container Material                         | ABS(UL 94-HB/File E50263)*Flammability resistance of (UL 94-V0/File E88637) can be available upon request.   |

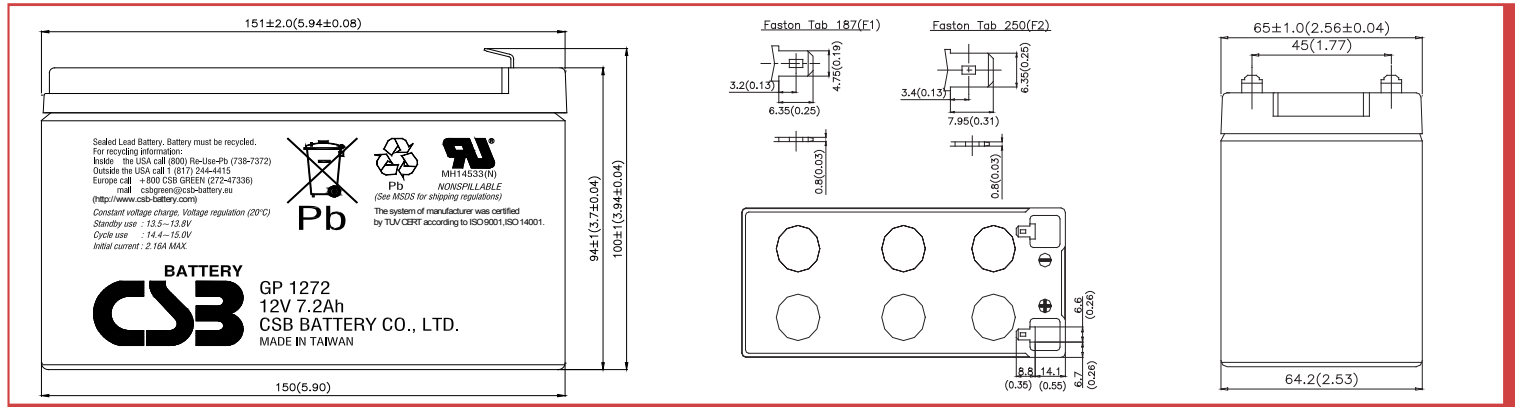


CSB-manufactured VRLA batteries are UL-recognized components under UL924 and UL1989.

CSB is also certified by ISO 9001 and ISO 14001.

## ► Dimensions :

| Overall Height (H) | Container height (h) | Length (L)      | Width (W)         |                  |
|--------------------|----------------------|-----------------|-------------------|------------------|
| Unit: mm (inch)    | 100±1 (3.94±0.04)    | 94±1 (3.7±0.04) | 151±2 (5.94±0.08) | 65±1 (2.56±0.04) |



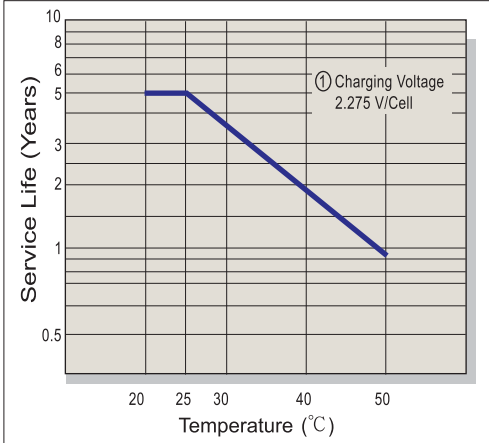
## Constant Current Discharge Characteristics Unit:A (25°C, 77°F)

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 2HR  | 3HR  | 4HR  | 5HR  | 8HR   | 10HR  | 20HR  |
|----------|------|-------|-------|-------|------|------|------|------|------|-------|-------|-------|
| 1.60V    | 35.6 | 22.0  | 16.5  | 9.61  | 5.51 | 3.08 | 2.14 | 1.65 | 1.35 | 0.925 | 0.778 | 0.456 |
| 1.67V    | 33.1 | 21.0  | 15.9  | 9.36  | 5.42 | 3.03 | 2.09 | 1.60 | 1.32 | 0.906 | 0.762 | 0.447 |
| 1.70V    | 31.9 | 20.5  | 15.6  | 9.24  | 5.37 | 3.00 | 2.06 | 1.58 | 1.30 | 0.897 | 0.756 | 0.438 |
| 1.75V    | 29.6 | 19.6  | 15.1  | 9.03  | 5.30 | 2.96 | 2.02 | 1.54 | 1.28 | 0.883 | 0.742 | 0.428 |
| 1.80V    | 27.2 | 18.6  | 14.4  | 8.77  | 5.23 | 2.92 | 1.99 | 1.50 | 1.25 | 0.871 | 0.732 | 0.421 |
| 1.85V    | 24.5 | 17.4  | 13.7  | 8.45  | 5.14 | 2.87 | 1.96 | 1.48 | 1.23 | 0.861 | 0.720 | 0.409 |

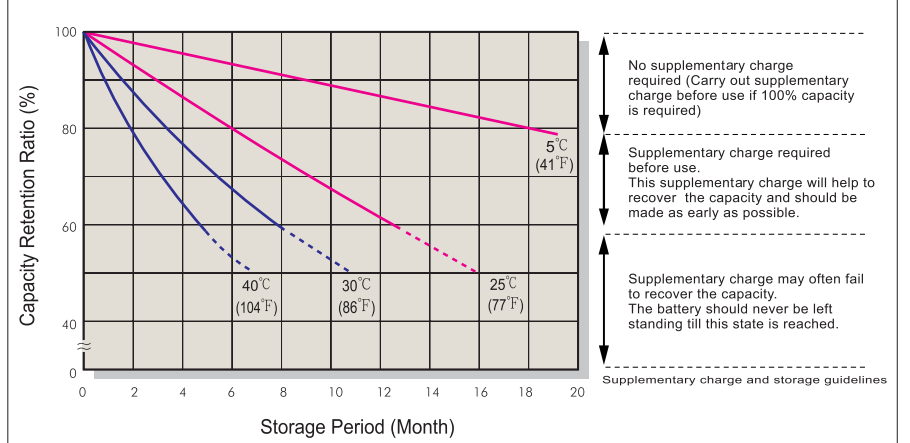
## Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 2HR  | 3HR  | 4HR  | 5HR  | 8HR  | 10HR | 20HR |
|----------|------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.60V    | 360  | 245   | 183   | 108   | 64.4 | 37.7 | 26.6 | 20.8 | 17.3 | 11.8 | 9.80 | 5.37 |
| 1.67V    | 340  | 235   | 177   | 106   | 63.6 | 37.1 | 26.3 | 20.5 | 17.0 | 11.6 | 9.69 | 5.27 |
| 1.70V    | 331  | 231   | 174   | 105   | 63.1 | 36.9 | 26.2 | 20.4 | 16.9 | 11.5 | 9.54 | 5.23 |
| 1.75V    | 313  | 222   | 170   | 103   | 62.4 | 36.4 | 25.9 | 20.2 | 16.7 | 11.4 | 9.48 | 5.15 |
| 1.80V    | 295  | 213   | 165   | 101   | 61.7 | 35.9 | 25.6 | 19.9 | 16.5 | 11.3 | 9.40 | 5.07 |
| 1.85V    | 276  | 202   | 158   | 99.0  | 60.8 | 35.4 | 25.2 | 19.6 | 16.3 | 11.2 | 9.29 | 4.99 |

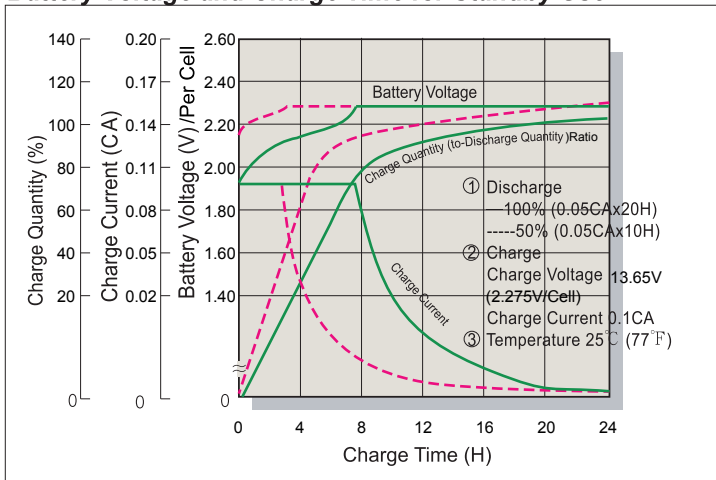
### Trickle (or Float) Service Life



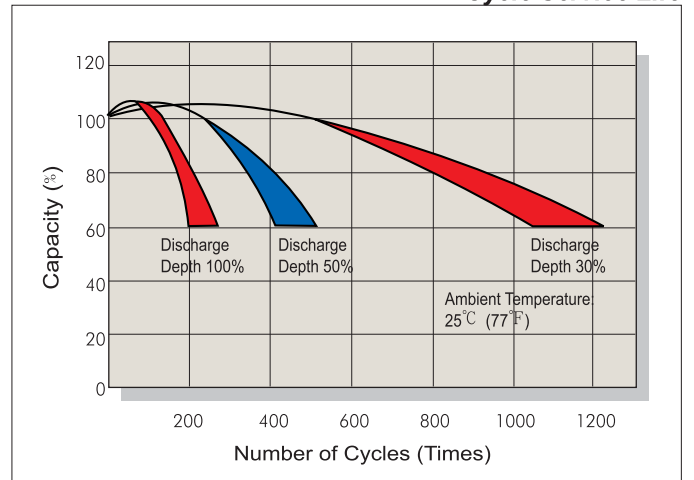
### Capacity Retention Characteristic



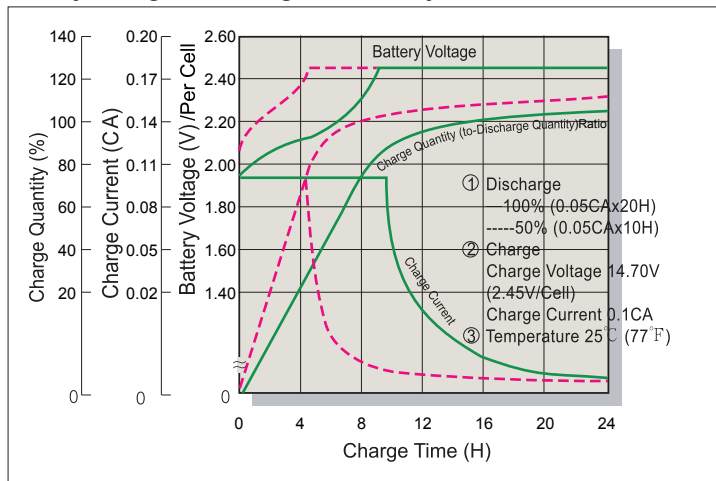
### Battery Voltage and Charge Time for Standby Use



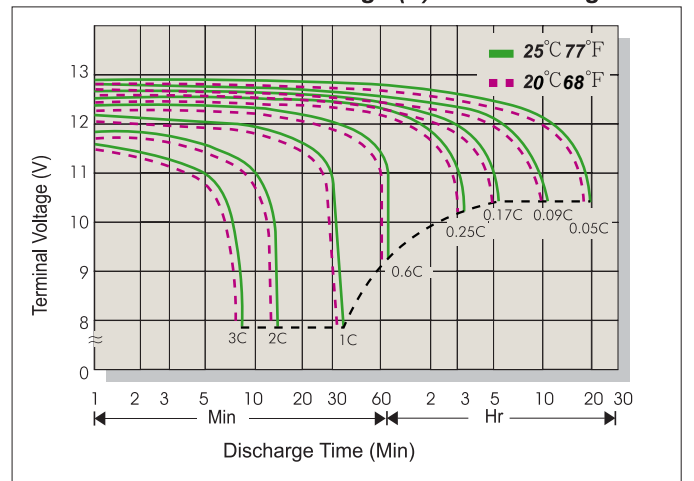
### Cycle Service Life



### 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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