



**GP series**

**GP 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 Standby Power Applications**

**【Design Life】**

Up to 5 Years in Standby Service at 25°C  
Eurobat (20°C) : 3-5 years, Standard Commercial

**【Operating Temperature Range】**

Nominal Operating Temperature : 25°C (77°F)  
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)

**【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)

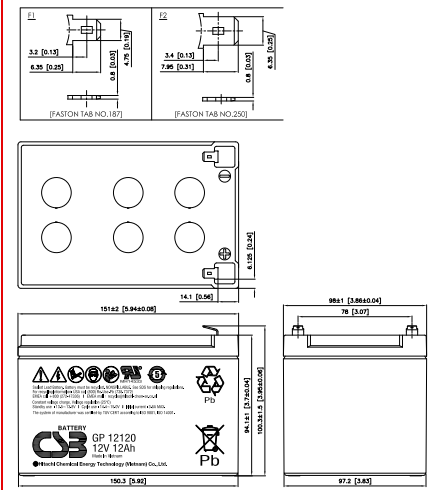
**【Self Discharge】**

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 61056-1/2: 2012

|                           |                                                                 |              |                |
|---------------------------|-----------------------------------------------------------------|--------------|----------------|
| Nominal Voltage           | 12V (6 cells per unit)                                          |              |                |
| Nominal Capacity          | 12Ah @20hr-rate to 1.75V per cell @25°C (77°F)                  |              |                |
| Weight                    | Approx. 3.67 Kg (8.09 lbs)                                      |              |                |
| Maximum Discharge Current | 150/180A (5sec)                                                 |              |                |
| Internal Resistance       | Approx. 16.7mΩ                                                  |              |                |
| Short Circuit Current     | 378A                                                            |              |                |
| Maximum Charge Current    | 3.60A                                                           |              |                |
| Terminal types            | F1/F2 terminal -Faston Tab 187/250                              |              |                |
| Terminal hardware Torque  | --                                                              |              |                |
| Container Material        | ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request |              |                |
| 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 | 5 MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR |
|----------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V    | 51.2  | 33.2  | 23.9  | 13.9  | 8.14  | 5.90  | 4.69 | 3.37 | 2.24 | 1.45 | 1.19 | 0.63 |
| 1.67V    | 48.2  | 32.0  | 23.6  | 13.7  | 8.12  | 5.84  | 4.62 | 3.35 | 2.21 | 1.44 | 1.18 | 0.62 |
| 1.70V    | 46.3  | 31.6  | 23.3  | 13.6  | 8.08  | 5.82  | 4.61 | 3.32 | 2.18 | 1.43 | 1.17 | 0.61 |
| 1.75V    | 43.3  | 30.0  | 22.6  | 13.4  | 8.03  | 5.77  | 4.57 | 3.26 | 2.13 | 1.40 | 1.15 | 0.60 |
| 1.80V    | 38.8  | 28.0  | 21.5  | 13.0  | 7.81  | 5.64  | 4.48 | 3.17 | 2.06 | 1.37 | 1.14 | 0.59 |
| 1.85V    | 34.2  | 25.3  | 19.8  | 12.3  | 7.51  | 5.41  | 4.29 | 3.03 | 1.97 | 1.32 | 1.09 | 0.57 |

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

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR |
|----------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V    | 539  | 347   | 268   | 160   | 97.9  | 70.6  | 55.9 | 39.6 | 25.3 | 16.7 | 13.8 | 7.70 |
| 1.67V    | 515  | 342   | 265   | 159   | 97.7  | 70.2  | 55.6 | 39.3 | 25.2 | 16.6 | 13.7 | 7.63 |
| 1.70V    | 499  | 336   | 262   | 158   | 97.0  | 69.9  | 55.4 | 39.0 | 25.0 | 16.5 | 13.6 | 7.61 |
| 1.75V    | 462  | 326   | 256   | 156   | 96.1  | 69.3  | 54.9 | 38.5 | 24.4 | 16.2 | 13.4 | 7.54 |
| 1.80V    | 418  | 307   | 243   | 153   | 94.8  | 68.0  | 53.7 | 37.7 | 24.1 | 15.8 | 13.1 | 7.42 |
| 1.85V    | 369  | 280   | 221   | 144   | 91.6  | 66.2  | 52.6 | 36.3 | 23.3 | 15.5 | 12.7 | 7.23 |

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

