



GP series GP 6120



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】

6.75 ~ 6.90 VDC/Unit at 25°C (77°F)

【Equalization Charging Voltage】

7.2 ~ 7.5 VDC/Unit at 25°C (77°F)

【Self Discharge】

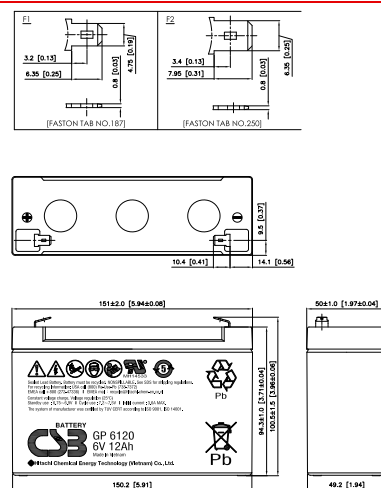
Less than 10% after 90 days, can be stored up to 6 months at 25°C (77°F);

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 | 6V (3 cells per unit) | | |
| Nominal Capacity | 12 Ah @20hr-rate to 1.75V per cell @25°C (77°F) | | |
| Weight | Approx. 1.85 Kg (4.08 lbs) | | |
| Maximum Discharge Current | 150/180A (5sec) | | |
| Internal Resistance | Approx. 8.9mΩ | | |
| Short Circuit Current | 427A | | |
| Maximum Charge Current | 3.60A | | |
| Terminal types | F1/F2 terminal -Faston Tab 187/250 | | |
| Terminal tightening 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) | 50.0±1.0 mm | 1.97±0.04 inch |
| | Container Height (h) | 94.3±1.0 mm | 3.71±0.04 inch |
| | Overall Height (H) | 100.5±1.5 mm | 3.96±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 | 0.64 |
| 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 | 0.58 |
| 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 | 269 | 173 | 134 | 79.8 | 48.9 | 35.3 | 28.0 | 19.8 | 12.7 | 8.36 | 6.91 | 3.85 |
| 1.67V | 257 | 171 | 132 | 79.6 | 48.8 | 35.1 | 27.8 | 19.7 | 12.6 | 8.30 | 6.85 | 3.81 |
| 1.70V | 250 | 168 | 131 | 78.8 | 48.5 | 35.0 | 27.7 | 19.5 | 12.5 | 8.25 | 6.80 | 3.80 |
| 1.75V | 231 | 163 | 128 | 78.1 | 48.1 | 34.6 | 27.5 | 19.3 | 12.2 | 8.12 | 6.69 | 3.77 |
| 1.80V | 209 | 153 | 121 | 76.3 | 47.4 | 34.0 | 26.8 | 18.9 | 12.0 | 7.91 | 6.52 | 3.71 |
| 1.85V | 185 | 140 | 111 | 72.2 | 45.8 | 33.1 | 26.3 | 18.1 | 11.7 | 7.73 | 6.36 | 3.61 |

Please refer to the official site for the latest rating confirmation. URL: www.csb-battery.com

Issued: 200213

Sales Offices

日立化成能源科技股份有限公司
Hitachi Chemical 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, 8831-6775

Fax: +86-755-8831-6075

EUROPE (EMEA) OFFICE

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

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

SHANGHAI OFFICE (CHINA)

Tel: +86-21-5046-1622, 5046-0833

Fax: +86-21-5046-1046

TAIPEI OFFICE

Tel: +886-2-2880-5600

Fax: +886-2-2888-3300

BEIJING OFFICE (CHINA)

Tel: +86-10-5820-5336, 5820-5338

Fax: +86-10-5820-3053

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

