



GPL series

GPL 12400 12V 40AH



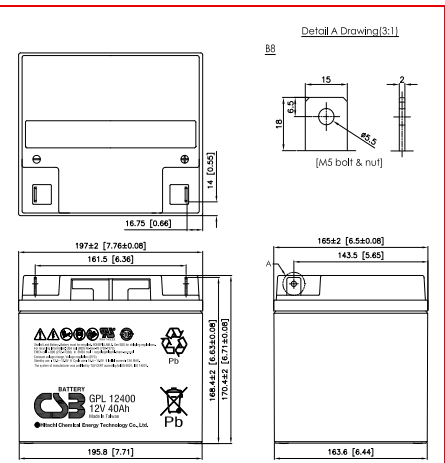
Valve Regulated Lead Acid Battery

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

Design for Standby Power Applications

| | |
|---|---|
| <p>【Design Life】 Up to 10 Years in Standby Service at 25°C Eurobat (20°C) : 10-12 years, Long Life</p> <p>【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)</p> | <p>【Float Charging Voltage】 13.5 ~ 13.8 VDC/Unit at 25°C (77°F)</p> <p>【Equalization Charging Voltage】 14.4 ~ 15.0 VDC/Unit at 25°C (77°F)</p> <p>【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).</p> |
|---|---|

| Specification | | Design according with IEC 60896-21/22: 2004 | |
|---------------------------|---|---|----------------|
| Nominal Voltage | 12V (6 cells per unit) | | |
| Nominal Capacity | 40 Ah @20hr-rate to 1.75V per cell @25°C (77°F) | | |
| Weight | Approx. 14.50 Kg (31.96 lbs) | | |
| Maximum Discharge Current | 400A (5sec) | | |
| Internal Resistance | Approx. 6.4mΩ | | |
| Short Circuit Current | 1186A | | |
| Maximum Charge Current | 12.00A | | |
| Terminal type | B8 terminal to accept M5 bolt | | |
| Terminal hardware Torque | 59.0 Kgf-cm/ 51.0 lbf-in/ 5.73 N-m | | |
| Container Material | ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request | | |
| Dimensions | Length (L) | 197.0±2.0 mm | 7.76±0.08 inch |
| | Width (W) | 165.0±2.0 mm | 6.50±0.08 inch |
| | Container Height (h) | 170.4±2.0 mm | 6.71±0.08 inch |
| | Overall Height (H) | 170.4±2.0 mm | 6.71±0.08 inch |



| Constant Current Discharge Characteristics Unit: A (25°C, 77°F) | | | | | | | | | | | | |
|---|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 5HR | 8HR | 10HR | 20HR |
| 1.60V | 162 | 104 | 78.2 | 47.7 | 28.1 | 20.4 | 16.3 | 11.6 | 7.36 | 4.83 | 3.93 | 2.12 |
| 1.67V | 145 | 96.5 | 74.5 | 46.7 | 27.9 | 20.3 | 16.2 | 11.5 | 7.34 | 4.77 | 3.85 | 2.06 |
| 1.70V | 137 | 92.8 | 72.4 | 46.1 | 27.8 | 20.2 | 16.1 | 11.4 | 7.32 | 4.75 | 3.82 | 2.02 |
| 1.75V | 124 | 87.4 | 69.5 | 45.0 | 27.6 | 20.1 | 16.0 | 11.3 | 7.29 | 4.69 | 3.76 | 1.97 |
| 1.80V | 111 | 81.3 | 65.9 | 43.8 | 27.4 | 19.9 | 15.9 | 11.2 | 7.25 | 4.62 | 3.70 | 1.92 |
| 1.85V | 98.1 | 75.1 | 62.4 | 42.5 | 27.0 | 19.8 | 15.8 | 11.1 | 7.22 | 4.56 | 3.64 | 1.87 |

| 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 | 1941 | 1242 | 938 | 572 | 338 | 245 | 195 | 139 | 88.4 | 58.0 | 47.2 | 25.5 |
| 1.67V | 1735 | 1158 | 895 | 558 | 335 | 243 | 194 | 138 | 88.1 | 57.3 | 46.4 | 24.8 |
| 1.70V | 1647 | 1117 | 869 | 552 | 334 | 242 | 193 | 137 | 87.9 | 57.0 | 46.0 | 24.4 |
| 1.75V | 1490 | 1049 | 830 | 539 | 331 | 241 | 192 | 136 | 87.5 | 56.3 | 45.2 | 23.7 |
| 1.80V | 1334 | 975 | 791 | 525 | 328 | 239 | 191 | 135 | 87.2 | 55.6 | 44.4 | 23.1 |
| 1.85V | 1178 | 902 | 749 | 510 | 324 | 238 | 190 | 134 | 86.7 | 54.8 | 43.7 | 22.5 |

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

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

