



GPL series GPL 12880



Valve Regulated Lead Acid Battery

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

General Design for Standby Power Applications

【Design Life】

Up to 10 Years in Standby Service at 25°C
Eurobat (20°C) : >12 YEARS VERY LONG LIFE

【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】

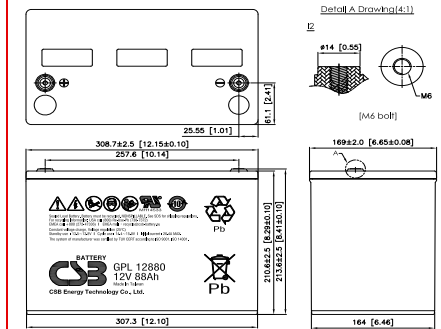
14.4 ~ 15.0 VDC/Unit at 25°C (77°F)

【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 60896-21/22:2004

| | | | |
|----------------------------|--|--------------|-----------------|
| Nominal Voltage | 12V (6 cells per unit) | | |
| Nominal Capacity | 88 Ah @20hr-rate to 1.75V per cell @25°C (77°F) | | |
| Weight | Approx. 29.70 Kg (65.46 lbs) | | |
| Maximum Discharge Current | 800A (5sec) | | |
| Internal Resistance | Approx. 3.6mΩ | | |
| Short Circuit Current | 2098A | | |
| Maximum Charge Current | 26.40A | | |
| Terminal types | I2 thread lead alloy terminal to accept M6 bolt | | |
| Terminal tightening torque | 51.7±10.3 Kgf-cm / 44.9±9.0 Lbf-in / 5.10±1.0 N-m | | |
| Container Material | PP (UL 94-HB) & Flame Retardant (94-V0) available upon request | | |
| Dimensions | Length (L) | 308.7±2.5 mm | 12.15±0.10 inch |
| | Width (W) | 169.0±2.0 mm | 6.65±0.08 inch |
| | Container Height (h) | 210.6±2.5 mm | 8.29±0.10 inch |
| | Overall Height (H) | 213.6±2.5 mm | 8.41±0.10 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 | 349 | 232 | 175 | 103 | 62.8 | 45.5 | 36.3 | 25.6 | 17.0 | 11.3 | 9.21 | 4.87 |
| 1.67V | 321 | 225 | 171 | 102 | 62.4 | 45.2 | 36.0 | 25.5 | 16.9 | 11.2 | 9.12 | 4.84 |
| 1.70V | 311 | 219 | 169 | 101 | 61.4 | 44.8 | 35.7 | 25.2 | 16.8 | 11.1 | 9.10 | 4.83 |
| 1.75V | 274 | 199 | 163 | 99.0 | 60.3 | 43.9 | 35.1 | 25.1 | 16.6 | 11.0 | 8.96 | 4.74 |
| 1.80V | 246 | 186 | 154 | 96.1 | 58.8 | 43.1 | 34.6 | 24.6 | 16.2 | 10.8 | 8.85 | 4.66 |
| 1.85V | 215 | 170 | 138 | 90.3 | 55.8 | 41.0 | 32.9 | 23.8 | 15.8 | 10.4 | 8.51 | 4.48 |

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 | 3535 | 2496 | 1941 | 1177 | 720 | 535 | 434 | 306 | 203 | 136 | 110 | 58.3 |
| 1.67V | 3307 | 2417 | 1919 | 1169 | 719 | 531 | 428 | 305 | 202 | 135 | 109 | 57.9 |
| 1.70V | 3202 | 2373 | 1888 | 1166 | 716 | 529 | 426 | 304 | 201 | 134 | 108 | 57.8 |
| 1.75V | 2995 | 2261 | 1828 | 1145 | 707 | 524 | 424 | 301 | 200 | 132 | 107 | 57.5 |
| 1.80V | 2782 | 2129 | 1734 | 1113 | 694 | 516 | 418 | 298 | 198 | 130 | 106 | 57.1 |
| 1.85V | 2434 | 1955 | 1581 | 1061 | 671 | 495 | 400 | 287 | 190 | 125 | 103 | 55.3 |

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, 45001, 50001.



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