



GP series GP 1245



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 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】

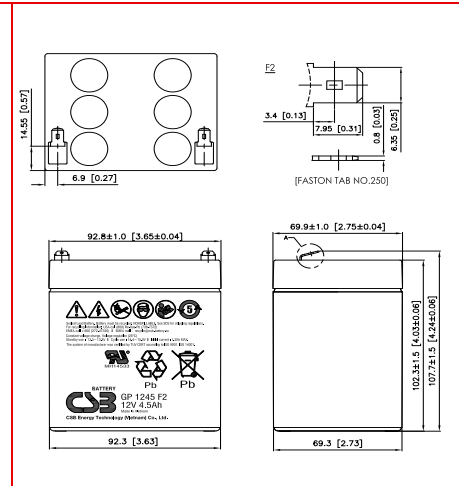
14.4 ~ 15.0 VDC/Unit at 25°C (77°F)

【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 | 4.5Ah @20hr-rate to 1.75V per cell @25°C (77°F) | | |
| Weight | Approx. 1.66 Kg (3.66 lbs) | | |
| Maximum Discharge Current | 60/90A (5sec) | | |
| Internal Resistance | Approx. 37.7mΩ | | |
| Short Circuit Current | 160A | | |
| Maximum Charge Current | 1.35A | | |
| 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) | 92.8±1.0 mm | 3.65±0.04 inch |
| | Width (W) | 69.9±1.0 mm | 2.75±0.04 inch |
| | Container Height (h) | 102.3±1.5 mm | 4.03±0.06 inch |
| | Overall Height (H) | 107.7±1.5 mm | 4.24±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 | 18.7 | 12.3 | 9.08 | 5.37 | 3.11 | 2.26 | 1.80 | 1.26 | 0.810 | 0.535 | 0.439 | 0.234 |
| 1.67V | 17.6 | 11.8 | 8.88 | 5.31 | 3.09 | 2.25 | 1.79 | 1.24 | 0.808 | 0.533 | 0.438 | 0.233 |
| 1.70V | 17.0 | 11.6 | 8.79 | 5.28 | 3.08 | 2.23 | 1.78 | 1.24 | 0.807 | 0.532 | 0.437 | 0.232 |
| 1.75V | 16.1 | 11.2 | 8.62 | 5.21 | 3.06 | 2.22 | 1.77 | 1.23 | 0.804 | 0.531 | 0.435 | 0.229 |
| 1.80V | 15.0 | 10.7 | 8.42 | 5.13 | 3.03 | 2.21 | 1.76 | 1.22 | 0.801 | 0.529 | 0.431 | 0.225 |
| 1.85V | 13.8 | 10.3 | 8.21 | 5.04 | 3.00 | 2.18 | 1.74 | 1.21 | 0.798 | 0.528 | 0.428 | 0.221 |

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 | 221 | 145 | 110 | 65.9 | 38.6 | 27.9 | 22.2 | 16.1 | 10.7 | 7.09 | 5.79 | 3.19 |
| 1.67V | 206 | 139 | 107 | 65.4 | 38.4 | 27.7 | 22.0 | 16.0 | 10.6 | 7.08 | 5.78 | 3.17 |
| 1.70V | 199 | 137 | 105 | 64.9 | 38.1 | 27.6 | 21.9 | 15.9 | 10.5 | 7.04 | 5.76 | 3.16 |
| 1.75V | 188 | 133 | 102 | 64.7 | 38.0 | 27.5 | 21.8 | 15.8 | 10.4 | 7.02 | 5.74 | 3.16 |
| 1.80V | 177 | 128 | 100 | 63.6 | 37.7 | 27.2 | 21.5 | 15.7 | 10.3 | 6.96 | 5.71 | 3.13 |
| 1.85V | 165 | 122 | 96.6 | 60.9 | 36.7 | 26.7 | 21.3 | 15.5 | 10.2 | 6.89 | 5.63 | 3.09 |

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

Issued: 200928

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Recognized under UL 1989,
and certified by ISO 9001, 14001, 45001, 50001.



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