



GPL Series

GPL 121000 Datasheet

12V Top Terminal VRLA-AGM

Specifications

| | |
|-------------------------------------|---|
| Voltage (Vdc) | 12 |
| Nominal Capacity (1.75 VPC @25°C) | 100 Ah @20hr-rate |
| Ah Capacity (8-Hr 1.75 VPC @ 25°C) | 95.20 |
| Ah Capacity (20-Hr 1.75 VPC @ 25°C) | 103.80 |
| Ah Capacity (8-Hr 1.80 VPC @ 25°C) | 94.40 |
| Max Charge Current (A) | 30.00 |
| Max Discharge Current (A) | 800 |
| Short Circuit Current (A) | 2606 |
| Internal Resistance (mΩ) | Approx. 3.2 |
| Terminal Type | 12 thread lead alloy terminal to accept M6 bolt |
| Terminal 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 |
| Weight (kg. / lb., Approx.) | 33.50 / 73.83 |
| Length (L) (mm / in) | 343.0±2.5 / 13.50±0.10 |
| Width (W) (mm / in) | 170.0±2.0 / 6.69±0.0 |
| Height (H) (mm / in) | 216.9±2.5 / 8.54±0.10 |
| Design Life | Up to 10 Years in Standby Service at 25°C Eurobat (20°C): >12 Years Very Long Life |
| Operating Temperature | Nominal: 25°C (77°F) Discharge: -15°C - 50°C (5°F-122°F) Charge/Storage: -15°C - 40°C (5°F - 104°F) |
| Float Charging Voltage | 13.5 - 13.8 Vdc/battery 25°C (77°F) |
| Eq. Charging Voltage | 14.4 - 15.0 Vdc/battery 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). |



Valve Regulated Lead Acid (VRLA) Battery

Maintenance-Free, Absorbent Glass Mat (AGM) Technology for Efficient Gas Recombination of up to 99%

Pure Lead Construction and Proprietary Elements

Designed for Float Service Standby Power Applications

Built in Accordance with IEC 60896-21/22:2004 and UL1989 Recognized (MH14533)





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| 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 |
| 10.02V (1.67 VPC) | 375 | 266 | 207 | 125 | 72.4 | 51.7 | 40.7 | 29.0 | 18.8 | 12.1 | 9.93 | 5.22 |
| 10.50V (1.75 VPC) | 317 | 240 | 194 | 120 | 71.1 | 50.9 | 40.2 | 28.6 | 18.5 | 11.9 | 9.81 | 5.19 |
| 10.80V (1.80 VPC) | 283 | 219 | 183 | 115 | 68.9 | 49.6 | 39.3 | 27.9 | 18.2 | 11.8 | 9.66 | 5.09 |

| 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 |
| 10.02V (1.67 VPC) | 4008 | 2837 | 2273 | 1417 | 843 | 607 | 480 | 340 | 222 | 152 | 124 | 63.3 |
| 10.50V (1.75 VPC) | 3572 | 2623 | 2181 | 1372 | 830 | 599 | 475 | 337 | 220 | 150 | 122 | 62.4 |
| 10.80V (1.80 VPC) | 3184 | 2442 | 2049 | 1316 | 809 | 585 | 465 | 331 | 217 | 148 | 121 | 61.4 |

