



GP Series

GP 12170 Datasheet

12V Top Terminal VRLA-AGM

Specifications

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage (Vdc) | 12 |
| Nominal Capacity (1.75 VPC @25°C) | 17 Ah @20hr-rate |
| Ah Capacity (8-Hr 1.75 VPC @ 25°C) | 18.56 |
| Ah Capacity (20-Hr 1.75 VPC @ 25°C) | 18.20 |
| Ah Capacity (8-Hr 1.80 VPC @ 25°C) | 18.40 |
| Max Charge Current (A) | 5.10 |
| Max Discharge Current (A) | 230 |
| Short Circuit Current (A) | 532 |
| Internal Resistance (mΩ) | Approx. 14.0 |
| Terminal Type | B1/B1B/B3 accept M5 bolt |
| Terminal Torque | 30.4±6.1 Kgf·cm / 3.0±0.6 N·m 26.4±5.3 Lbf·in |
| Container Material | ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request. |
| Weight (kg. / lb., Approx.) | 5.50 / 12.12 |
| Length (L) (mm / in) | 181.0±2.0 mm 7.13±0.08 inch |
| Width (W) (mm / in) | 76.2±1.0 mm 3.00±0.04 inch |
| Height (H) (mm / in) | 167.0±2.0 mm 6.57±0.08 inch |
| Design Life | Up to 5 Years in Standby Service at 25°C Eurobat (20°C): 3-5 Years Standard Commercial |
| 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 61056-1/2:2012 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) | 71.2 | 47.5 | 36.5 | 22.9 | 13.7 | 10.0 | 7.99 | 5.69 | 3.61 | 2.35 | 1.90 | 0.95 |
| 10.50V (1.75 VPC) | 61.0 | 43.1 | 34.1 | 22.3 | 13.4 | 9.86 | 7.92 | 5.64 | 3.59 | 2.32 | 1.86 | 0.91 |
| 10.80V (1.80 VPC) | 54.5 | 40.2 | 32.7 | 21.8 | 13.3 | 9.79 | 7.87 | 5.61 | 3.58 | 2.30 | 1.83 | 0.88 |

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) | 790 | 544 | 423 | 275 | 164.0 | 120.0 | 96.0 | 68.5 | 43.4 | 28.3 | 22.8 | 11.5 |
| 10.50V (1.75 VPC) | 677 | 493 | 395 | 267 | 161.0 | 119.0 | 95.3 | 67.9 | 43.2 | 27.9 | 22.4 | 10.9 |
| 10.80V (1.80 VPC) | 605 | 460 | 377 | 261 | 160.0 | 118.0 | 94.6 | 67.3 | 43.0 | 27.6 | 22.0 | 10.5 |

Detail A Drawing(3:1)

