



# GP Series

## GP 12170 Datasheet

12V Top Terminal VRLA-AGM

### Specifications

|                                        |                                                                                                                                                                                                          |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage (Vdc)                          | 12                                                                                                                                                                                                       |
| Nominal Capacity<br>(1.75 VPC @25°C)   | 17 Ah @20hr-rate                                                                                                                                                                                         |
| Ah Capacity<br>(8-Hr 1.75 VPC @ 25°C)  | 18.56                                                                                                                                                                                                    |
| Ah Capacity<br>(20-Hr 1.75 VPC @ 25°C) | 18.20                                                                                                                                                                                                    |
| Ah Capacity<br>(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<br>26.4±5.3 Lbf·in                                                                                                                                                         |
| Container Material                     | ABS (UL 94-HB) & Flame Retardant<br>(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<br>Eurobat (20°C): 3-5 Years Standard Commercial                                                                                                                |
| Operating Temperature                  | Nominal: 25°C (77°F)<br>Discharge: -15°C - 50°C<br>(5°F-122°F)<br>Charge/Storage: -15°C - 40°C<br>(5°F - 104°F)                                                                                          |
| Float Charging Voltage                 | 13.5 - 13.8 Vdc/battery<br>25°C (77°F)                                                                                                                                                                   |
| Eq. Charging Voltage                   | 14.4 - 15.0 Vdc/battery<br>25°C (77°F)                                                                                                                                                                   |
| Self-Discharge                         | Less than 10% after 90 days, can<br>be stored up to 6 months at 25°C<br>(77°F); Fully recharging is required<br>before usage, and charged sooner<br>if stored at higher temperature<br>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)

