



## GP series GP 12340 12V34AH



### Valve Regulated Lead Acid Battery

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

### 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)

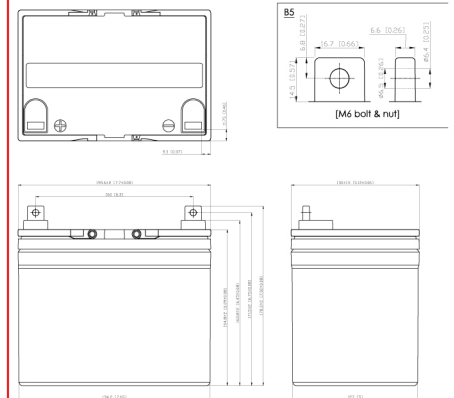
#### 【Self Discharge】

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          | 34 Ah @20hr-rate to 1.75V per cell @25°C (77°F)                 |              |                |
| Weight                    | Approx. 10.48 Kg (23.10 lbs)                                    |              |                |
| Maximum Discharge Current | 380A (5sec)                                                     |              |                |
| Internal Resistance       | Approx. 9.5mΩ                                                   |              |                |
| Short Circuit Current     | 915A                                                            |              |                |
| Maximum Charge Current    | 10.20A                                                          |              |                |
| Terminal types            | B5 terminal to accept M6 bolt                                   |              |                |
| Terminal Breaking Torque  | 138.6 Kgf·cm / 120.3 Lbf·in / 13.58 N·m                         |              |                |
| Container Material        | ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request |              |                |
| Dimensions                | Length (L)                                                      | 195.6±2.0 mm | 7.70±0.08 inch |
|                           | Width (W)                                                       | 130.0±1.5 mm | 5.12±0.08 inch |
|                           | Container Height (h)                                            | 154.8±2.0 mm | 6.09±0.08 inch |
|                           | Overall Height (H)                                              | 178.3±2.0 mm | 7.02±0.08 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    | 144   | 91.7  | 69.3  | 42.1  | 25.0  | 18.2  | 14.5 | 10.3 | 6.55 | 4.26 | 3.48 | 1.86 |
| 1.67V    | 128   | 85.5  | 65.5  | 41.3  | 24.7  | 18.0  | 14.4 | 10.2 | 6.50 | 4.23 | 3.43 | 1.78 |
| 1.70V    | 121   | 82.8  | 63.8  | 40.8  | 24.5  | 17.9  | 14.3 | 10.1 | 6.49 | 4.23 | 3.41 | 1.75 |
| 1.75V    | 110   | 77.5  | 61.2  | 40.0  | 24.4  | 17.8  | 14.2 | 10.0 | 6.47 | 4.18 | 3.35 | 1.69 |
| 1.80V    | 98.0  | 72.3  | 58.8  | 39.2  | 24.0  | 17.6  | 14.1 | 9.9  | 6.45 | 4.14 | 3.30 | 1.64 |
| 1.85V    | 86.3  | 67.0  | 55.7  | 38.2  | 23.6  | 17.4  | 14.0 | 9.8  | 6.43 | 4.09 | 3.24 | 1.58 |

### 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    | 1732 | 1100  | 832   | 505   | 300   | 218   | 174 | 124 | 78.6 | 51.1 | 41.7 | 21.6 |
| 1.67V    | 1539 | 1026  | 788   | 495   | 297   | 216   | 173 | 123 | 78.1 | 50.8 | 41.1 | 20.7 |
| 1.70V    | 1456 | 994   | 771   | 490   | 295   | 215   | 172 | 122 | 77.9 | 50.7 | 40.9 | 20.3 |
| 1.75V    | 1316 | 931   | 739   | 481   | 292   | 213   | 171 | 121 | 77.7 | 50.2 | 40.3 | 19.6 |
| 1.80V    | 1176 | 867   | 705   | 470   | 288   | 212   | 170 | 120 | 77.4 | 49.6 | 39.6 | 18.9 |
| 1.85V    | 1036 | 804   | 669   | 458   | 283   | 209   | 169 | 119 | 77.2 | 49.1 | 39.0 | 18.2 |

Please refer to the official site for the latest rating confirmation.

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