



# GP Series

## GP 12650 Datasheet

12V Top Terminal VRLA-AGM

### Specifications

|                                     |   |
|-------------------------------------|---|
| Voltage (Vdc)                       | 12  |
| Nominal Capacity (1.75 VPC @25°C)   | 65 Ah @20hr-rate  |
| Ah Capacity (8-Hr 1.75 VPC @ 25°C)  | 62.9  |
| Ah Capacity (20-Hr 1.75 VPC @ 25°C) | 65.0  |
| Ah Capacity (8-Hr 1.80 VPC @ 25°C)  | 62.1  |
| Max Charge Current (A)              | 19.5  |
| Max Discharge Current (A)           | 500   |
| Short Circuit Current (A)           | 1663  |
| Internal Resistance (mΩ)            | Approx. 5.8   |
| Terminal Type                       | I2 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.)         | 20.00 / 44.08   |
| Length (L) (mm / in)                | 349.4±2.5 / 13.76±0.10  |
| Width (W) (mm / in)                 | 166.0±2.0 / 6.54±0.08   |
| Height (H) (mm / in)                | 174.9±2.0 / 6.89±0.08   |
| 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 (5°F-122°F)<br>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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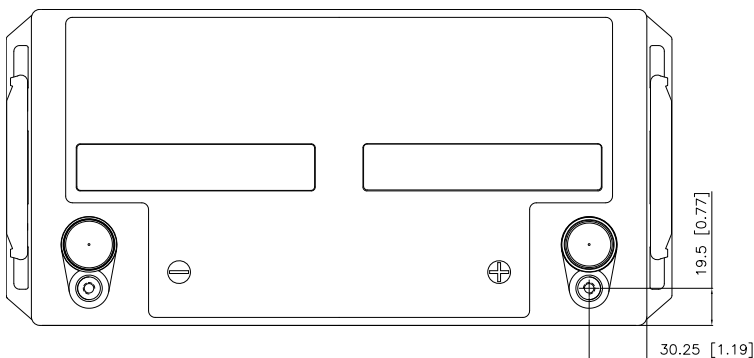
12V Top Terminal VRLA-AGM

### 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) | 242  | 162   | 124   | 78.3  | 46.9  | 34.1  | 27.2 | 19.3 | 12.3 | 7.97 | 6.47 | 3.42 |
| 10.50V (1.75 VPC) | 208  | 147   | 117   | 75.4  | 46.4  | 33.8  | 27.0 | 19.1 | 12.1 | 7.86 | 6.32 | 3.25 |
| 10.80V (1.80 VPC) | 186  | 137   | 111   | 73.4  | 45.9  | 33.6  | 26.9 | 19.0 | 12.0 | 7.76 | 6.21 | 3.14 |

### 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) | 2900 | 1940  | 1503  | 935   | 562   | 409   | 326 | 231 | 147 | 96.0 | 77.7 | 39.2 |
| 10.50V (1.75 VPC) | 2490 | 1760  | 1400  | 903   | 555   | 405   | 324 | 229 | 145 | 94.3 | 75.8 | 37.1 |
| 10.80V (1.80 VPC) | 2230 | 1640  | 1330  | 881   | 550   | 403   | 323 | 228 | 144 | 93.1 | 74.5 | 35.7 |



Detail A Drawing(3:1)

