# 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)

MH14533

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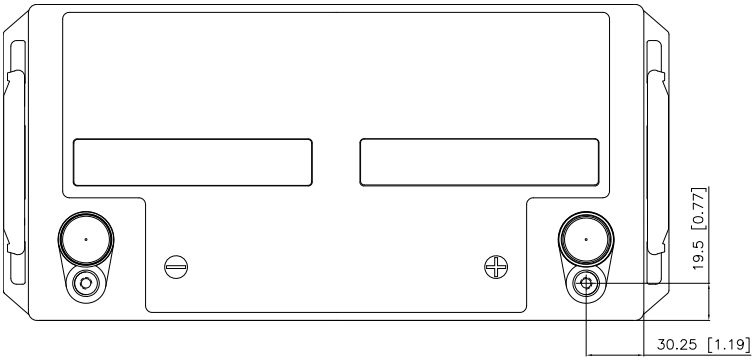
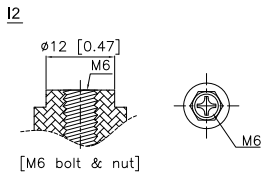
12V Top Terminal VRLA-AGM

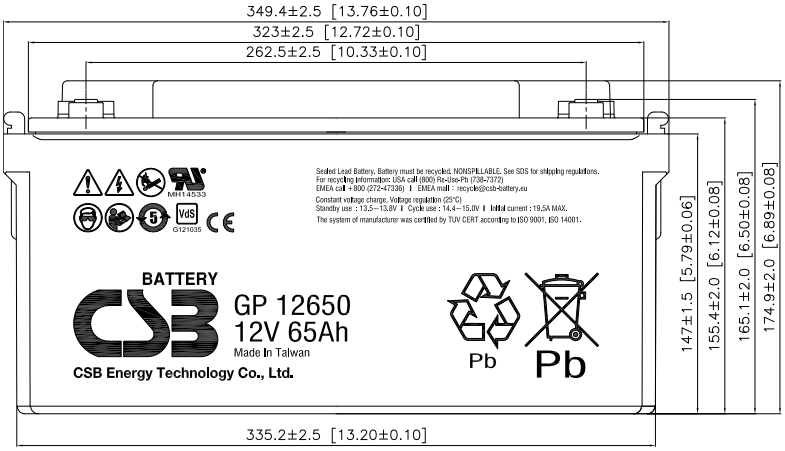
| Constant Current Discharge Characteristics Unit: A (25°C, 77°F) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **F.V/Time** | **5MIN** | **10MIN** | **15MIN** | **30MIN** | **60MIN** | **90MIN** | **2HR** | **3HR** | **5HR** | **8HR** | **10HR** | **20HR** |
| 10.02V (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 |

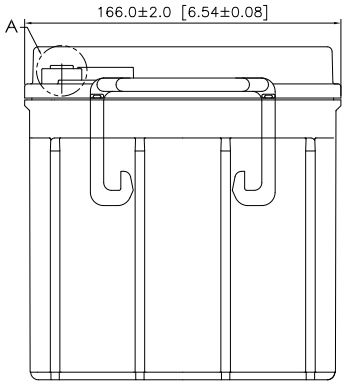
| Constant Power Discharge Characteristics Unit: W (25°C, 77°F) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **F.V/Time** | **5MIN** | **10MIN** | **15MIN** | **30MIN** | **60MIN** | **90MIN** | **2HR** | **3HR** | **5HR** | **8HR** | **10HR** | **20HR** |
| 10.02V (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)





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