



# GP Series

## GP1223 Datasheet

12V Top Terminal VRLA-AGM



### Specifications

|                                        |                                                                                                                                                                                                                                                   |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage (Vdc)                          | 12                                                                                                                                                                                                                                                |
| Nominal Capacity                       | 2.3 Ah @20hr-rate                                                                                                                                                                                                                                 |
| Ah Capacity<br>(10-Hr 1.75 VPC @ 25°C) | 2.10                                                                                                                                                                                                                                              |
| Ah Capacity<br>(20-Hr 1.75 VPC @ 25°C) | 2.30                                                                                                                                                                                                                                              |
| Ah Capacity<br>(10-Hr 1.80 VPC @ 25°C) | 2.10                                                                                                                                                                                                                                              |
| Max Charge Current (A)                 | 0.69                                                                                                                                                                                                                                              |
| Max Discharge Current (A)              | 34.5 (5 sec)                                                                                                                                                                                                                                      |
| Short Circuit Current (A)              | 185 (5 sec)                                                                                                                                                                                                                                       |
| Internal Resistance (mΩ)               | Approx. 60.0                                                                                                                                                                                                                                      |
| Terminal Type                          | F1 Terminal -Faston Tab 187                                                                                                                                                                                                                       |
| Terminal Torque                        | --                                                                                                                                                                                                                                                |
| Container Material                     | ABS (UL 94-HB)                                                                                                                                                                                                                                    |
| Weight (kg. / lb.)                     | 0.91 / 2.00                                                                                                                                                                                                                                       |
| Length (L) (mm / in)                   | 178.0±2.0 / 7.00±0.08                                                                                                                                                                                                                             |
| Width (W) (mm / in)                    | 35.0±1.0 / 1.38±0.04                                                                                                                                                                                                                              |
| Height (H) (mm / in)                   | 66.0±1.0 / 2.60±0.04                                                                                                                                                                                                                              |
| Design Life                            | Up to 5 Years in Standby Service<br>at 25°C ; Eurobat (20°C): 3-5<br>Years Standard Commercial<br>Nominal: 25°C (77°F)                                                                                                                            |
| Operating Temperature                  | Discharge: -15°C - 50°C<br>(5°F-122°F)<br>Charge/Storage: -15°C - 50°C<br>(5°F - 122°F)                                                                                                                                                           |
| Float Charging Voltage                 | 13.6 - 13.8 Vdc/battery<br>25°C (77°F)                                                                                                                                                                                                            |
| Eq. Charging Voltage                   | 14.5 - 14.9 Vdc/battery<br>25°C (77°F)                                                                                                                                                                                                            |
| Self-Discharge                         | Less than 10% after 90 days, can<br>be stored up to 6 months and<br>10 months with equalization<br>charge* at 25C (77F); Full<br>recharging is required before<br>usage, and charged sooner if<br>stored at higher temperature<br>than 25C (77F). |

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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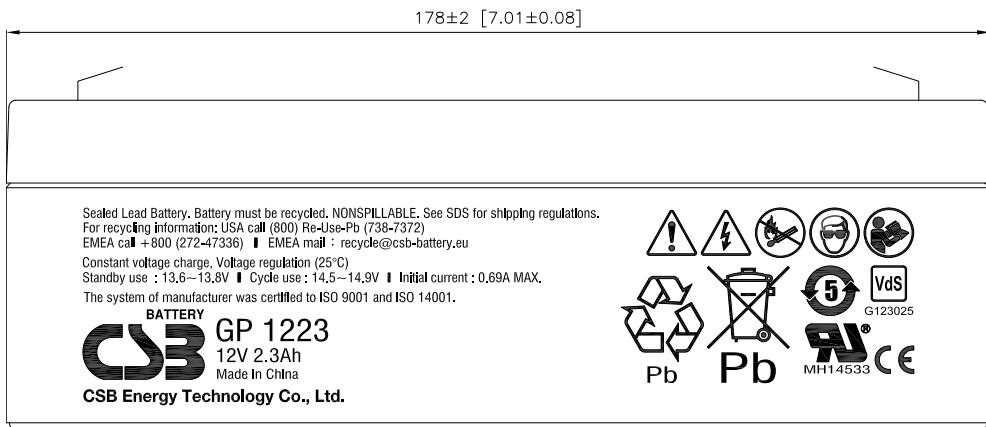
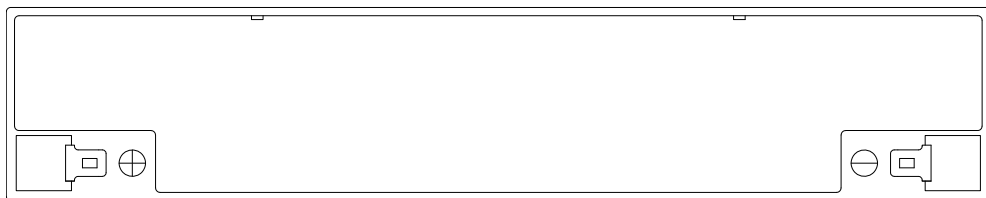
12V Top Terminal VRLA-AGM

### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

| F.V/Time         | 5 MIN | 10MIN | 15MIN | 30MIN | 60MIN | 2HR  | 3HR  | 4HR  | 5HR  | 10HR | 20HR  |
|------------------|-------|-------|-------|-------|-------|------|------|------|------|------|-------|
| 10.20V (1.70VPC) | 8.13  | 5.13  | 4.11  | 2.32  | 1.44  | 0.81 | 0.58 | 0.46 | 0.39 | 0.22 | 0.116 |
| 10.50V (1.75VPC) | 7.78  | 4.91  | 3.97  | 2.26  | 1.41  | 0.79 | 0.58 | 0.46 | 0.39 | 0.21 | 0.115 |
| 10.80V (1.80VPC) | 7.34  | 4.64  | 3.76  | 2.18  | 1.36  | 0.77 | 0.56 | 0.45 | 0.38 | 0.21 | 0.113 |

### Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

| F.V/Time         | 5 MIN | 10MIN | 15MIN | 30MIN | 60MIN | 2HR  | 3HR  | 4HR  | 5HR  | 10HR | 20HR |
|------------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 10.20V (1.70VPC) | 90.7  | 57.9  | 46.8  | 26.5  | 16.6  | 9.42 | 6.88 | 5.52 | 4.70 | 2.58 | 1.39 |
| 10.50V (1.75VPC) | 86.8  | 55.4  | 45.2  | 25.9  | 16.3  | 9.28 | 6.83 | 5.48 | 4.67 | 2.57 | 1.38 |
| 10.80V (1.80VPC) | 81.9  | 52.3  | 42.8  | 24.9  | 15.8  | 9.04 | 6.63 | 5.31 | 4.53 | 2.52 | 1.35 |



### Detail A Drawing(3:1)

