



# GP Series

## GP1212 Datasheet

12V Top Terminal VRLA-AGM



### Specifications

|                                        |                                                                                                                                                                                                                                                   |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage (Vdc)                          | 12                                                                                                                                                                                                                                                |
| Nominal Capacity                       | 1.2 Ah @20hr-rate                                                                                                                                                                                                                                 |
| Ah Capacity<br>(10-Hr 1.75 VPC @ 25°C) | 1.12                                                                                                                                                                                                                                              |
| Ah Capacity<br>(20-Hr 1.75 VPC @ 25°C) | 1.20                                                                                                                                                                                                                                              |
| Ah Capacity<br>(10-Hr 1.80 VPC @ 25°C) | 1.09                                                                                                                                                                                                                                              |
| Max Charge Current (A)                 | 0.36                                                                                                                                                                                                                                              |
| Max Discharge Current (A)              | 18 (5 sec)                                                                                                                                                                                                                                        |
| Short Circuit Current (A)              | 145 (5 sec)                                                                                                                                                                                                                                       |
| Internal Resistance (mΩ)               | Approx. 90.0                                                                                                                                                                                                                                      |
| Terminal Type                          | F1 Terminal -Faston Tab 187                                                                                                                                                                                                                       |
| Terminal Torque                        | --                                                                                                                                                                                                                                                |
| Container Material                     | ABS (UL 94-HB)                                                                                                                                                                                                                                    |
| Weight (kg. / lb.)                     | 0.61 / 1.34                                                                                                                                                                                                                                       |
| Length (L) (mm / in)                   | 97.0±1.0 / 3.82±0.04                                                                                                                                                                                                                              |
| Width (W) (mm / in)                    | 43.0±1.0 / 1.69±0.04                                                                                                                                                                                                                              |
| Height (H) (mm / in)                   | 58.0±1.0 / 2.28±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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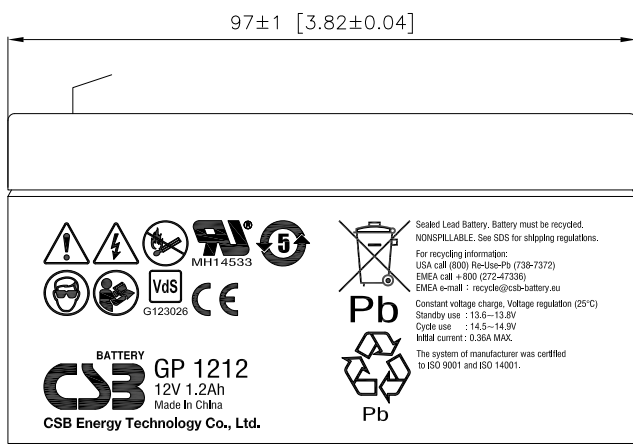
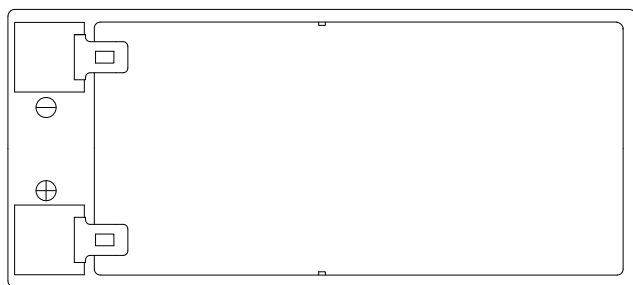
12V Top Terminal VRLA-AGM

### 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) | 4.24  | 2.68  | 2.14  | 1.21  | 0.75  | 0.42 | 0.30 | 0.24 | 0.21 | 0.112 | 0.060 |
| 10.50V (1.75VPC) | 4.06  | 2.56  | 2.07  | 1.18  | 0.73  | 0.41 | 0.30 | 0.24 | 0.20 | 0.112 | 0.060 |
| 10.80V (1.80VPC) | 3.83  | 2.42  | 1.96  | 1.14  | 0.71  | 0.40 | 0.29 | 0.23 | 0.20 | 0.109 | 0.059 |

### 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) | 47.3  | 30.2  | 24.4  | 13.8  | 8.70  | 4.91 | 3.59 | 2.88 | 2.45 | 1.35 | 0.72 |
| 10.50V (1.75VPC) | 45.3  | 28.9  | 23.6  | 13.5  | 8.50  | 4.84 | 3.56 | 2.86 | 2.44 | 1.34 | 0.72 |
| 10.80V (1.80VPC) | 42.7  | 27.3  | 22.4  | 13.0  | 8.20  | 4.72 | 3.46 | 2.77 | 2.36 | 1.31 | 0.71 |



### Detail A Drawing(3:1)

F1

