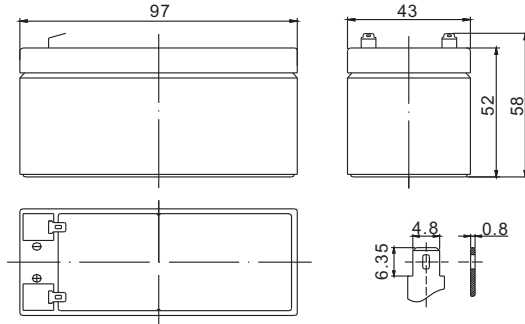


# Standard Series

## GP 12-1,2 12V1.2Ah

### Dimension(mm)



T1  
Terminal



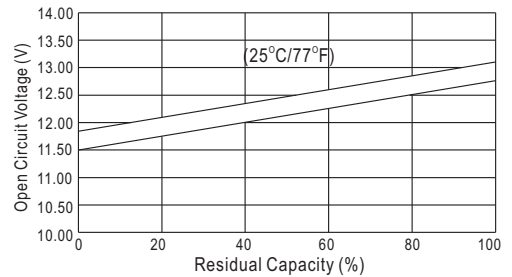
### Specification

|                      |              |                  |
|----------------------|--------------|------------------|
| Nominal Voltage      |              | 12 V             |
| Capacity(20HR, 25°C) |              | 1.2 Ah           |
| Dimension            | Length       | 97mm (3.82inch)  |
|                      | Width        | 43mm (1.69inch)  |
|                      | Height       | 52mm (2.05inch)  |
|                      | Total Height | 58mm (2.28inch)  |
| Approx. Weight       |              | 0.59kg (1.30lbs) |

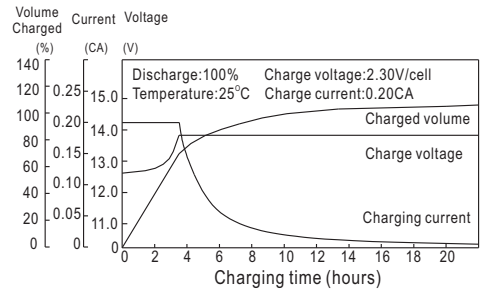
### Characteristics

|  |              |                            |
|--|--------------|----------------------------|
| Capacity 20°C<br>(68□) To<br>1.70V/Cell  | 20 hour rate | 1.2Ah                      |
|  | 10 hour rate | 1.2Ah                      |
|  | 5 hour rate  | 1.1Ah                      |
|  | 1 hour rate  | 0.79Ah                     |
|  | 15 min rate  | 0.6Ah                      |
| Internal resistance(Fully charged, 25°C) |              | Approx. 95mΩ               |
| Capacity affected by temperature (20HR)  | 40°C         | 102%                       |
|  | 25°C         | 100%                       |
|  | 0°C          | 85%                        |
|  | -15°C        | 65%                        |
| Self-discharge (25°C)                    | 3 month      | Remaining Capacity: 91%    |
|  | 6 month      | Remaining Capacity: 82%    |
|  | 12 month     | Remaining Capacity: 65%    |
| Nominal operating temperature            |              | 25°C ± 3°C (77°F ± 5°F)    |
| Operating temperature range              |              | -15°C ~ 50°C (5°F ~ 122°F) |
| Float charging voltage(25°C)             |              | 13.60 to 13.80V            |
| Cyclic charging voltage(25°C)            |              | 14.50 to 14.90V            |
| Maximum charging current                 |              | 0.36A                      |
| Terminal material                        |              | Copper                     |
| Maximum discharge current                |              | 18A(5 Sec.)                |

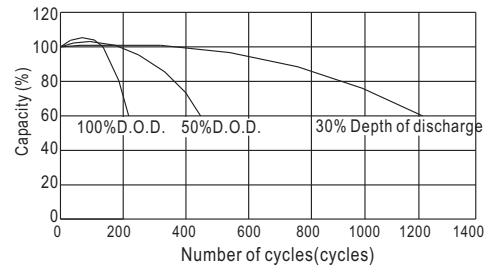
### The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



### Charging Characteristics(25°C)



### Cycle Life(25°C)



### Constant Current Discharge Characteristics (A, 25°C)

| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 3h   | 5h   | 10h  | 20h  |
|----------|------|-------|-------|-------|-------|------|------|------|------|
| 9.60V    | 5.00 | 3.20  | 2.50  | 1.45  | 0.82  | 0.33 | 0.22 | 0.12 | 0.06 |
| 10.2V    | 4.75 | 3.04  | 2.40  | 1.39  | 0.79  | 0.33 | 0.22 | 0.12 | 0.06 |
| 10.8V    | 4.47 | 2.86  | 2.28  | 1.32  | 0.75  | 0.32 | 0.21 | 0.12 | 0.06 |

### Constant Power Discharge Characteristics (Watt, 25°C)

| 5min | 10min | 15min | 30min | 60min | 3h   | 5h   | 10h  | 20h  |
|------|-------|-------|-------|-------|------|------|------|------|
| 55.8 | 36.1  | 28.5  | 16.6  | 9.50  | 3.92 | 2.63 | 1.44 | 0.72 |
| 53.0 | 34.3  | 27.4  | 15.9  | 9.15  | 3.92 | 2.63 | 1.44 | 0.72 |
| 49.9 | 32.3  | 26.0  | 15.1  | 8.69  | 3.80 | 2.51 | 1.44 | 0.72 |