



### GT-C RANGE

Gaston GT-C Range (deep cycle) battery is specially designed to have a large amount of stored current discharged between charging sessions, with heavy non-porous battery plate that is used a different chemistry for the plates active paste material, and a slightly stronger electrolyte than normal battery electrolyte. It enhance a superior performance of high power output and excellent deep cycle life for energy applications.

### Application

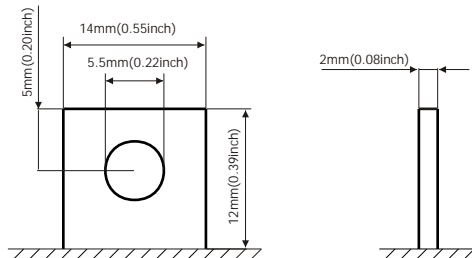
- Electric Powered Vehicles
- Golf Cars and Buggies
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS
- PVs

### General Features

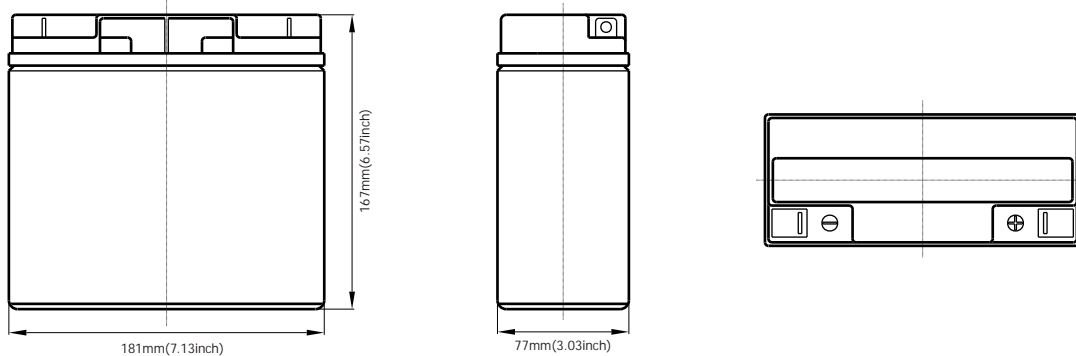
- Better discharge characteristics than normal VRLA batteries.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- Higher safety & reliable construction.
- Extra durability and deep cycle ability for heavy demand applications.
- Low self discharge characteristic.
- Flexibility design for multiple install positions.

### Construction

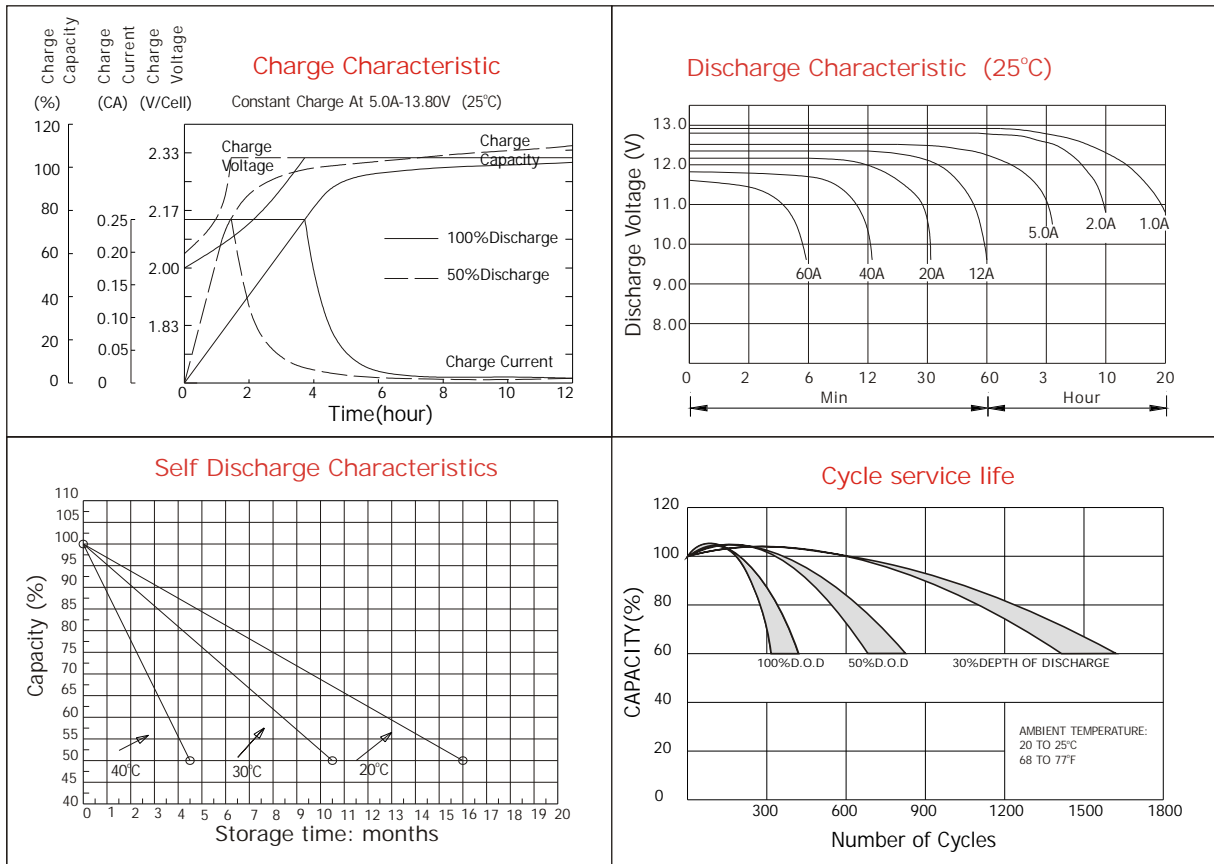
- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy Resin
- Safety valve .....EPDR
- Terminal .....Copper
- Separator .....Fiber glass
- Electrolyte .....Sulfuric acid



**Standard Terminal Dimensions**  
(Optional terminal please check terminal information page)



|                                  |   |                  |                       |                  |
|----------------------------------|---|------------------|-----------------------|------------------|
| Battery Model                    | GT12-18C                                    |                  |                       |                  |
| Designed Cycle Life              | > 350 cycles @ -0.5CA to 9.6V               |                  |                       |                  |
| Capacity(25°C)                   | 20HR(1.0A,1.75V)                            | 10HR(1.8A,1.75V) | 5HR(3.06A,1.75V)      | 1HR(12.6A,1.75V) |
|                                  | 20AH  | 18AH             | 15.3AH                | 12.6AH           |
| Dimensions                       | Length                                      | Width            | Height                | Total Height     |
|                                  | 181mm(7.13inch)                             | 77mm(3.03inch)   | 167mm(6.57inch)       | 167mm(6.57inch)  |
| Approx. Weight                   | 6.0Kg (13.23 lbs)                           |                  |                       |                  |
| Internal Resistance              | Full charged at 25°C: 0.014 Ohm             |                  |                       |                  |
| Self Discharge                   | 3% of capacity declined per month at (25°C) |                  |                       |                  |
| Capacity Affected by Temp.(20HR) | 40°C  | 25°C             | 0°C                   | -15°C            |
|                                  | 102%  | 100%             | 85%                   | 65%              |
| Charge Voltage(25°C)             | Cycle use                                   |                  | Float use             |                  |
|                                  | 14.4-15V(-30mV/ °C), max. Current: 5.4A     |                  | 13.6-13.8V(-20mV/ °C) |                  |



### Constant current discharge ratings-amperes at 25°C

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR | 20HR |
|----------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V    | 88.6 | 55.1  | 41.6  | 25.4  | 14.2 | 6.24 | 3.81 | 2.08 | 1.12 |
| 1.67V    | 83.2 | 52.3  | 40.0  | 24.3  | 14.0 | 6.00 | 3.73 | 2.06 | 1.08 |
| 1.70V    | 76.2 | 50.4  | 39.1  | 22.1  | 13.6 | 5.60 | 3.65 | 2.05 | 1.07 |
| 1.75V    | 74.7 | 48.8  | 37.8  | 21.0  | 13.0 | 5.41 | 3.57 | 2.04 | 1.04 |
| 1.80V    | 66.9 | 46.6  | 34.3  | 19.4  | 12.1 | 5.20 | 3.36 | 2.00 | 1.01 |
| 1.85V    | 59.0 | 44.4  | 30.9  | 17.9  | 11.3 | 5.01 | 3.15 | 1.97 | 1.00 |

### Constant power discharge ratings-watts at 25°C

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR | 20HR |
|----------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V    | 155  | 99.6  | 75.9  | 45.7  | 25.7 | 11.1 | 6.44 | 4.27 | 2.24 |
| 1.67V    | 150  | 97.1  | 75.0  | 44.7  | 25.5 | 10.7 | 6.42 | 4.24 | 2.16 |
| 1.70V    | 141  | 96.1  | 74.4  | 41.9  | 25.0 | 10.2 | 6.33 | 4.21 | 2.13 |
| 1.75V    | 142  | 95.8  | 73.7  | 40.7  | 24.6 | 10.0 | 6.28 | 4.16 | 2.08 |
| 1.80V    | 130  | 94.4  | 68.4  | 38.8  | 23.2 | 9.71 | 6.08 | 4.11 | 2.03 |
| 1.85V    | 118  | 89.5  | 62.0  | 36.3  | 21.8 | 9.41 | 5.89 | 3.97 | 2.00 |

