



### GASTON GTS

Range utilizes thick grids of modern technology so as to guarantee the design life up to 15 years. Advanced micro porous absorbent glass mat (AGM) separator, minimizing diffusion of oxygen into the separator, reduces float charge current which suppresses the corrosion rate of the positive grid, and extends the life of the battery.

### Applications

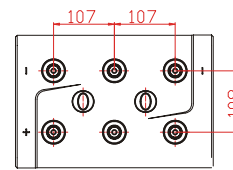
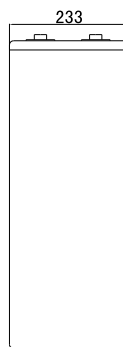
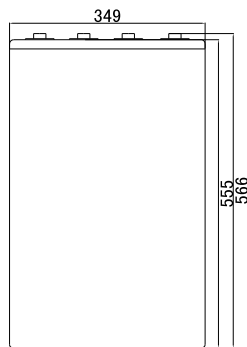
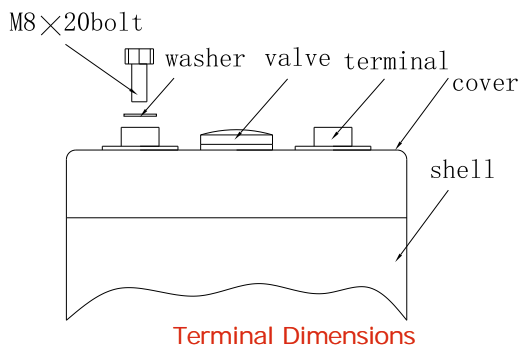
- Cable Television
- Communication Equipment
- Security System
- UPS
- Control Equipment
- Medical Equipment
- Emergency Power System

### General Features

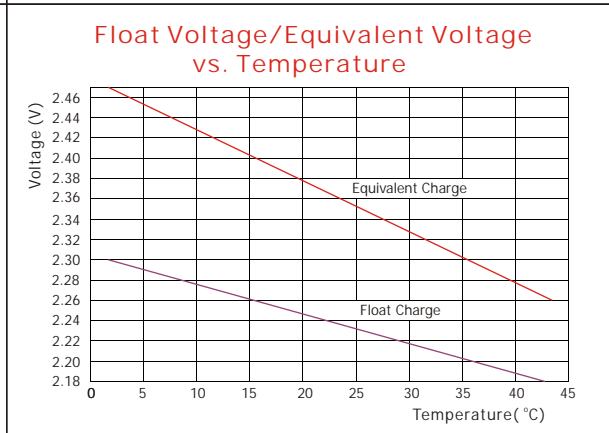
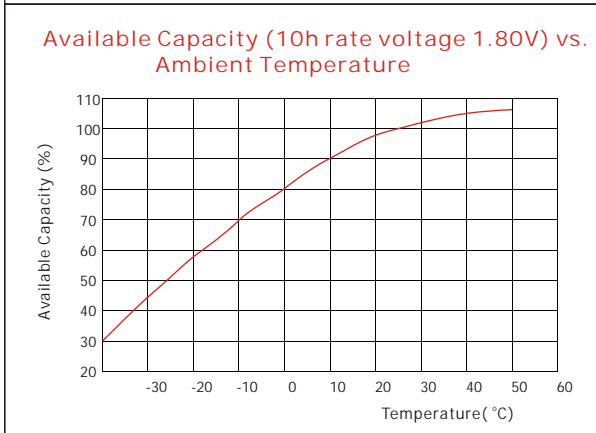
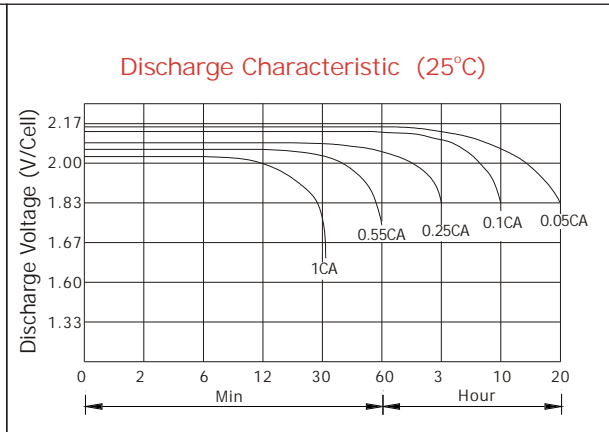
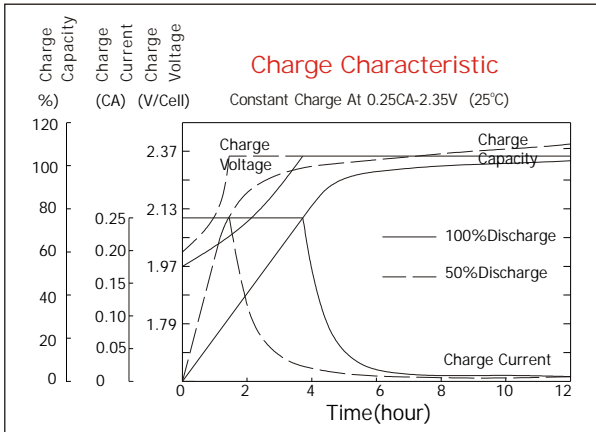
- Extra long life service design (up to 15 years).
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- Higher safety & reliable construction.
- Exceptional deep discharge recovery performance.
- Low self discharge 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



|                                  |   |                  |                        |                   |
|----------------------------------|---|------------------|------------------------|-------------------|
| Battery Model                    | GTS-2000E   |                  |                        |                   |
| Designed Floating Life           | 15 Years  |                  |                        |                   |
| Capacity(25°C)                   | 10HR(200A,1.80V)                                      | 3HR(500A,1.80V)  | 1HR(1100A,1.75V)       |                   |
|                                  | 2000Ah  | 1500Ah           | 1100Ah                 |                   |
| Dimensions                       | Length  | Width            | Height                 | Total Height      |
|                                  | 349mm [13.74inch]                                     | 233mm [9.17inch] | 555mm [21.85inch]      | 566mm [22.28inch] |
| Approx. Weight                   | 121Kg (266.2 lbs)                                     |                  |                        |                   |
| Internal Resistance              | Full charged at 25°C: 0.00012 Ohm                     |                  |                        |                   |
| Self Discharge                   | Storing for 90d capacity retention is over 94% (25°C) |                  |                        |                   |
| Capacity Affected by Temp.(20HR) | 40°C  | 25°C             | 0°C                    | -15°C             |
|                                  | 105%  | 100%             | 85%                    | 68%               |
| Charge Voltage(25°C)             | Cycle use   |                  | Float use              |                   |
|                                  | 2.35V-2.40V@25°C(-5mV/°C), max. Current: 500A         |                  | 2.23V @ 25°C (-3mV/°C) |                   |



**Constant current discharge ratings-amperes at 25°C (A)**

| F. V/Time | 5MIN | 15MIN | 30MIN | 1HOUR | 2HOUR | 3HOUR | 5HOUR | 8HOUR | 10HOUR | 24HOUR |
|-----------|------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 1.60V     | 2925 | 2461  | 1900  | 1318  | 810   | 595   | 389   | 262   | 217    | 101    |
| 1.65V     | 2743 | 2317  | 1824  | 1244  | 787   | 579   | 384   | 260   | 216    | 99.2   |
| 1.70V     | 2578 | 2192  | 1668  | 1182  | 760   | 553   | 374   | 256   | 213    | 98.8   |
| 1.75V     | 2432 | 2063  | 1538  | 1116  | 732   | 540   | 368   | 253   | 211    | 97.9   |
| 1.80V     | 2297 | 1924  | 1440  | 1060  | 710   | 528   | 360   | 248   | 208    | 95.8   |
| 1.83V     | 2128 | 1771  | 1344  | 1000  | 680   | 512   | 354   | 247   | 207    | 95.8   |
| 1.85V     | 1972 | 1637  | 1266  | 936   | 640   | 484   | 337   | 238   | 200    | 93.1   |
| 1.88V     | 1811 | 1481  | 1172  | 850   | 595   | 457   | 321   | 229   | 192    | 90.3   |
| 1.90V     | 1615 | 1292  | 1052  | 774   | 535   | 433   | 305   | 216   | 182    | 86.9   |
| 1.94V     | 1454 | 1175  | 966   | 696   | 478   | 371   | 269   | 193   | 165    | 77.3   |

**Constant power discharge ratings-watts at 25°C (W/Cell)**

| F. V/Time | 5MIN | 15MIN | 30MIN | 1HOUR | 2HOUR | 3HOUR | 5HOUR | 8HOUR | 10HOUR | 24HOUR |
|-----------|------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 1.60V     | 4973 | 4184  | 3458  | 2522  | 1604  | 1190  | 810   | 580   | 480    | 223    |
| 1.65V     | 4800 | 4054  | 3324  | 2443  | 1538  | 1160  | 790   | 567   | 468    | 217    |
| 1.70V     | 4640 | 3946  | 3215  | 2350  | 1477  | 1136  | 774   | 558   | 464    | 215    |
| 1.75V     | 4450 | 3776  | 3023  | 2216  | 1412  | 1114  | 760   | 546   | 460    | 213    |
| 1.80V     | 4250 | 3560  | 2825  | 2040  | 1360  | 1080  | 740   | 534   | 452    | 208    |
| 1.83V     | 4000 | 3330  | 2640  | 1908  | 1310  | 1056  | 720   | 520   | 444    | 205    |
| 1.85V     | 3748 | 3110  | 2440  | 1748  | 1260  | 1020  | 700   | 504   | 428    | 199    |
| 1.88V     | 3495 | 2858  | 2200  | 1600  | 1196  | 964   | 680   | 490   | 416    | 196    |
| 1.90V     | 3150 | 2520  | 1995  | 1482  | 1136  | 930   | 654   | 472   | 403    | 192    |
| 1.94V     | 2850 | 2303  | 1763  | 1336  | 1046  | 851   | 596   | 424   | 363    | 170    |