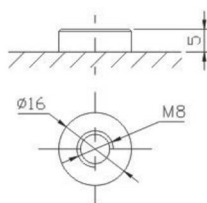
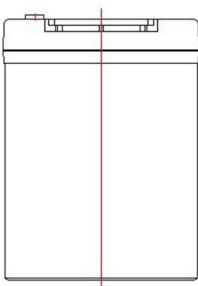
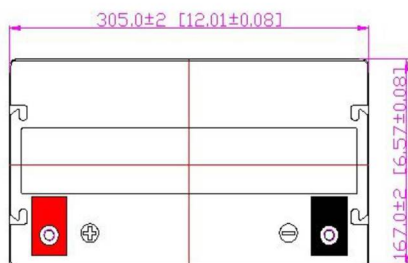
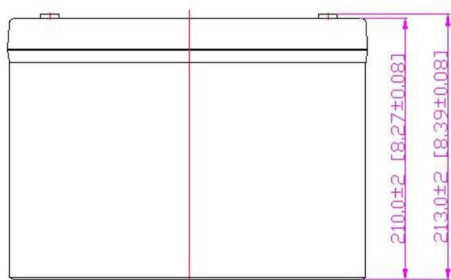




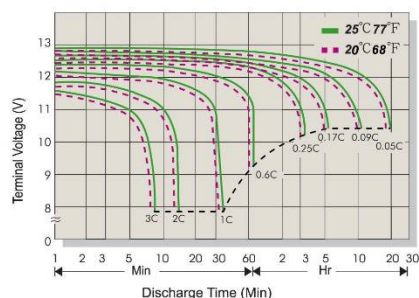
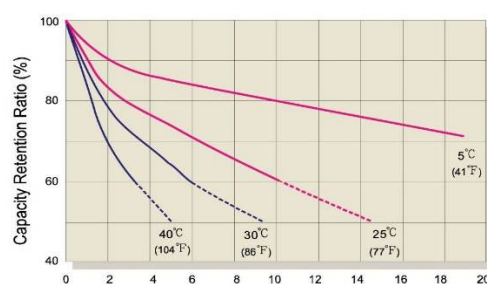
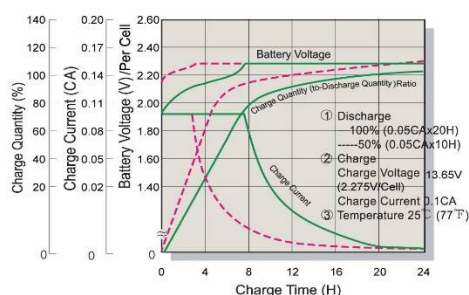
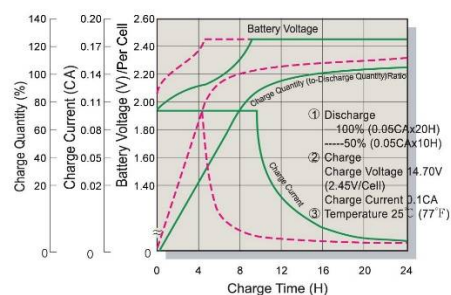
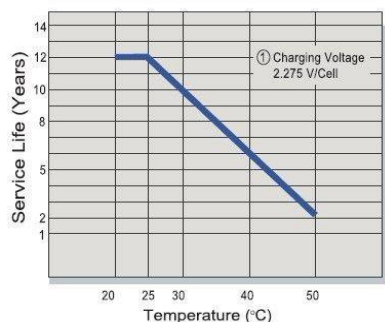
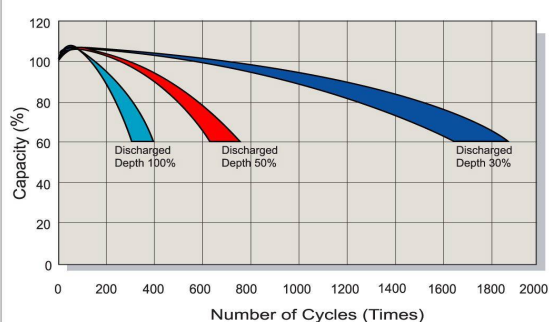
# DATASHEET GHL 100-12S

**12V 100AH**
**GEL SEALED VRLA BATTERY**
**LONG LIFE 12 YEARS OF EXPECTED LIFETIME**
**(EUROBAT)**


## SPECIFICATIONS

|                                  |                                                                                    |                           |
|----------------------------------|------------------------------------------------------------------------------------|---------------------------|
| Nominal Voltage                  | 12V                                                                                |                           |
| Nominal Capacity                 | 100Ah                                                                              |                           |
| Terminal                         | T11 (M8)                                                                           |                           |
| Approx. Weight                   | Approx 28,4 kg (62,61 lbs)                                                         |                           |
| Container Material               | ABS UL94 V0                                                                        |                           |
| Dimensions                       | Length                                                                             | 305 ± 2 mm (12,04 inches) |
|                                  | Width                                                                              | 167 ± 2 mm (6,57 inches)  |
|                                  | Container Height                                                                   | 210 ± 2 mm (8,26 inches)  |
|                                  | Total Height (with terminal)                                                       | 220 ± 2 mm (8,66 inches)  |
| Rated Capacity                   | 100 Ah                                                                             | 20 hr (4,68A 10,8V, 25°C) |
|                                  | 90 Ah                                                                              | 10 hr (9,0A 10,8V, 25°C)  |
|                                  | 74,9 Ah                                                                            | 5 hr (14,98A 10,5V, 25°C) |
|                                  | 66,09 Ah                                                                           | 3 hr (22,03A 10,5V, 25°C) |
| Max. Discharge Current           | 1.080,0 A (5 s)                                                                    |                           |
| Internal Resistance              | Approx 8 mΩ                                                                        |                           |
| Charge Voltage (25°C)            | Cycle Use: 14,4-14,6V(-30mV/°C) max current 18A<br>Float Use: 13,6-13,8 (-20mV/°C) |                           |
| Capacity affected by Temperature | 40°C (104°F)                                                                       | 102%                      |
|                                  | 25°C (77°F)                                                                        | 100%                      |
|                                  | 0°C (32°F)                                                                         | 85%                       |
|                                  | -15°C (5°F)                                                                        | 65%                       |
| Self discharge                   | 2% of capacity declined per month at 25°C                                          |                           |



**TERMINAL VOLTAGE(V) AND DISCHARGE TIME**

**CAPACITY RETENTION CHARACTERISTIC**

**BATTERY VOLTAGE AND CHARGE TIME FOR STANDBY USE**

**BATTERY VOLTAGE AND CHARGE TIME FOR CYCLE USE**

**TICKLE (OR FLOAT) SERVICE LIFE**

**CYCLE SERVICE LIFE**

**Constant Current Discharge (CC, Unit : A) at 25°C**

| F.V/Time   | 5 min | 10 min | 15 min | 30 min | 1 hr | 2 hr  | 3 hr  | 4 hr  | 5 hr  | 6 hr  | 8 hr  | 10 hr | 20 hr |
|------------|-------|--------|--------|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1,85V/Cell | 205,7 | 151,5  | 131,5  | 79,4   | 46,7 | 27,55 | 20,51 | 17,30 | 14,24 | 13,11 | 10,49 | 8,64  | 4,50  |
| 1,80V/Cell | 213,5 | 157,3  | 136,5  | 82,4   | 48,7 | 28,70 | 21,42 | 18,02 | 14,84 | 13,65 | 10,92 | 9,00  | 4,68  |
| 1,75V/Cell | 234,9 | 165,2  | 143,4  | 85,7   | 50,7 | 29,55 | 22,03 | 18,20 | 14,98 | 13,79 | 11,03 | 9,09  | 4,72  |
| 1,70V/Cell | 262,6 | 173,0  | 150,2  | 89,8   | 51,6 | 30,10 | 22,45 | 18,38 | 15,13 | 13,93 | 11,14 | 9,18  | 4,77  |
| 1,67V/Cell | 290,4 | 180,9  | 157,0  | 92,2   | 53,6 | 30,95 | 23,12 | 18,56 | 15,28 | 14,07 | 11,26 | 9,27  | 4,82  |
| 1,60V/Cell | 314,6 | 190,3  | 165,2  | 96,1   | 54,2 | 31,28 | 23,38 | 18,77 | 15,45 | 14,23 | 11,38 | 9,37  | 4,88  |

**Constant Power Discharge (CP, Unit : W) at 25°C**

| F.V/Time   | 5 min | 10 min | 15 min | 30 min | 1 hr  | 2 hr | 3 hr  | 4 hr  | 5 hr  | 6 hr  | 8 hr  | 10 hr | 20 hr |
|------------|-------|--------|--------|--------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| 1,85V/Cell | 390,8 | 287,9  | 249,8  | 150,8  | 88,8  | 52,3 | 38,97 | 32,87 | 27,05 | 24,90 | 20,04 | 16,41 | 8,30  |
| 1,80V/Cell | 405,7 | 298,8  | 259,4  | 156,6  | 92,6  | 54,5 | 40,70 | 34,24 | 28,19 | 25,94 | 20,88 | 17,10 | 8,66  |
| 1,75V/Cell | 446,3 | 313,8  | 272,4  | 162,8  | 96,3  | 56,1 | 41,85 | 34,59 | 28,47 | 26,21 | 21,10 | 17,27 | 8,74  |
| 1,70V/Cell | 499,0 | 328,7  | 285,3  | 170,6  | 98,1  | 57,2 | 42,66 | 34,92 | 28,74 | 26,46 | 21,30 | 17,44 | 8,82  |
| 1,67V/Cell | 551,8 | 343,7  | 298,4  | 175,2  | 101,8 | 58,8 | 43,93 | 35,27 | 29,03 | 26,72 | 21,51 | 17,61 | 8,91  |
| 1,60V/Cell | 597,8 | 361,7  | 314,0  | 182,7  | 102,9 | 59,4 | 44,4  | 35,6  | 29,3  | 27,0  | 21,7  | 17,8  | 9,0   |