

# HGL Series Battery

HGL series valve regulated lead acid batteries are designed with AGM (Absorbent Glass Mat) technology and for general application purpose, such as UPS, telecom, and electrical utilities.



## Features

- Sealed construction, no electrolyte leakage from the terminals or the case of any battery, efficient operation in any orientation.
- Maintenance free operation, no need to add water.
- Low self discharge, the self discharge rate is below 3% per month.
- Special lead calcium alloy, good corrosion resistance and high recovery capacity.
- FAA and IATA approved as non-hazardous.

## Specifications

- **Nominal Voltage:** 6 & 12volts
- **Design Life:** 22Ah and down: 4-6 years @25°C  
24Ah and up: 6-8 years @25°C
- **Operating Temperature:** -15°C to 50 °C
- **Plates:** Flat pasted
- **Separator:** AGM (Absorbent Glass Mat)
- **Case and Cover:** ABS(V0 on request)
- **Charge Voltage:** Float use: 2.25-2.30 VPC@25°C  
Cycle use:2.40-2.49VPC@25°C  
Max. Charge current: 0.25C20

# Applications

A list of some of the more common applications for standby or principal power is given below:

- Alarm Systems
- Cable Television
- Communications Equipment
- Computers
- Control Equipment
- Electronic Cash Registers
- Electronic Test Equipment
- Emergency Lighting Systems
- Fire & Security Systems
- Geophysical Equipment
- Marine Equipment
- Medical Equipment
- Microprocessor Based Office machines
- Portable Cine & Video Lights
- Power Tools
- Telecommunication Systems
- Television & Video Recorders
- Toys
- Uninterruptible Power Supplies
- Vending Machines



HGL Series General Specifications

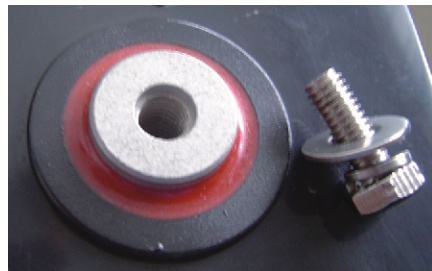
| Fullriver<br>Type | Volt | Nominal<br>Capacity | Nominal<br>Capacity | Nominal<br>Capacity | Nominal<br>Capacity | Length |       | Width |      | Height |       | Total Height |       | Weight (Approx.) |       | Terminal<br>Type | Pallet<br>QTY |
|-------------------|------|---------------------|---------------------|---------------------|---------------------|--------|-------|-------|------|--------|-------|--------------|-------|------------------|-------|------------------|---------------|
|                   |      | C20                 | C10                 | C5                  | C1                  |        |       |       |      |        |       |              |       |                  |       |                  |               |
|                   |      | 1.75 V/C            | 1.75 V/C            | 1.70V/C             | 1.60 V/C            | mm     | in    | mm    | in   | mm     | in    | mm           | in    | kg               | pound |                  |               |
| HGL1.36           | 6    | 1.3                 | 1.10                | 1                   | 0.72                | 97     | 3.82  | 24    | 0.94 | 52     | 2.05  | 58           | 2.28  | 0.31             | 0.68  | F1               | 2420          |
| HGL3.36           | 6    | 3.3                 | 2.98                | 2.72                | 1.92                | 134    | 5.28  | 34    | 1.34 | 61     | 2.40  | 67           | 2.64  | 0.59             | 1.30  | F1               | 1260          |
| HGL4.6A           | 6    | 4                   | 3.72                | 3.4                 | 2.4                 | 70     | 2.76  | 47    | 1.85 | 101    | 3.98  | 107          | 4.21  | 0.71             | 1.57  | F1               | 1200          |
| HGL4.6B           | 6    | 4                   | 3.72                | 3.4                 | 2.4                 | 70     | 2.76  | 47    | 1.85 | 106    | 4.17  | 106          | 4.17  | 0.71             | 1.57  | RB               | 1200          |
| HGL4.6C           | 6    | 4                   | 3.72                | 3.4                 | 2.4                 | 70     | 2.76  | 47    | 1.85 | 98     | 3.86  | 104          | 4.09  | 0.71             | 1.57  | F1               | 1200          |
| HGL5.6A           | 6    | 5                   | 4.65                | 4.25                | 3                   | 70     | 2.76  | 47    | 1.85 | 101    | 3.98  | 107          | 4.21  | 0.77             | 1.70  | F1               | 1200          |
| HGL5.6B           | 6    | 5                   | 4.65                | 4.25                | 3                   | 67     | 2.64  | 67    | 2.64 | 97     | 3.82  | 115          | 4.53  | 0.92             | 2.03  | S01              | 900           |
| HGL7.6            | 6    | 7                   | 6.5                 | 5.95                | 4.2                 | 151    | 5.94  | 34    | 1.34 | 95     | 3.74  | 101          | 3.98  | 1.18             | 2.60  | F1               | 770           |
| HGL8.6            | 6    | 8                   | 7.4                 | 6.8                 | 4.8                 | 99     | 3.90  | 57    | 2.24 | 115    | 4.53  | 115          | 4.53  | 1.69             | 3.73  | F1               | 660           |
| HGL10.6           | 6    | 10                  | 9.3                 | 8.5                 | 6                   | 151    | 5.94  | 50    | 1.97 | 95     | 3.74  | 101          | 3.98  | 1.58             | 3.48  | F1               | 680           |
| HGL12.6           | 6    | 12                  | 11.2                | 10.2                | 7.2                 | 151    | 5.94  | 50    | 1.97 | 95     | 3.74  | 101          | 3.98  | 1.84             | 4.06  | F1               | 680           |
| HGL14.6CQ         | 6    | 14                  | 13.0                | 11.9                | 8.4                 | 108    | 4.25  | 71    | 2.80 | 140    | 5.51  | 140          | 5.51  | 2.38             | 5.25  | CQ               | 320           |
| HGL14.6TS         | 6    | 14                  | 13.0                | 11.9                | 8.4                 | 108    | 4.25  | 71    | 2.80 | 140    | 5.51  | 140          | 5.51  | 2.38             | 5.25  | TS               | 320           |
| HGL14.6TH         | 6    | 14                  | 13.0                | 11.9                | 8.4                 | 108    | 4.25  | 71    | 2.80 | 140    | 5.51  | 140          | 5.51  | 2.38             | 5.25  | TH               | 320           |
| HGL14.6PL         | 6    | 14                  | 13.0                | 11.9                | 8.4                 | 108    | 4.25  | 71    | 2.80 | 140    | 5.51  | 140          | 5.51  | 2.38             | 5.25  | PL               | 320           |
| HGL20.6           | 6    | 20                  | 18.6                | 17.0                | 12.0                | 157    | 6.18  | 83    | 3.27 | 125    | 4.92  | 125          | 4.92  | 4.45             | 9.81  | M5               | 280           |
| HGL4.26           | 6    | 42                  | 39.1                | 35.7                | 25.2                | 162    | 6.38  | 88    | 3.46 | 163    | 6.42  | 170          | 6.69  | 6.20             | 13.67 | F2               | 144           |
| HGL18.06          | 6    | 180                 | 167                 | 153                 | 108                 | 306    | 12.05 | 169   | 6.65 | 220    | 8.66  | 226          | 8.90  | 28.10            | 61.95 | M8               | 36            |
| HGL24.06          | 6    | 240                 | 221                 | 199                 | 140                 | 244    | 9.61  | 190   | 7.48 | 275    | 10.83 | 275          | 10.83 | 31.00            | 68.34 | AP               | 30            |
| HGL0.812          | 12   | 0.8                 | 0.74                | 0.68                | 0.48                | 96     | 3.78  | 25    | 0.98 | 61     | 2.40  | 61           | 2.40  | 0.34             | 0.75  | C01              | 2200          |
| HGL1.312          | 12   | 1.3                 | 1.10                | 1.02                | 0.72                | 97     | 3.82  | 43    | 1.69 | 52     | 2.05  | 58           | 2.28  | 0.59             | 1.30  | F1               | 1800          |
| HGL2.012          | 12   | 2                   | 1.86                | 1.70                | 1.20                | 177    | 6.97  | 35    | 1.38 | 61     | 2.40  | 67           | 2.64  | 0.90             | 1.98  | F1               | 1100          |
| HGL2.312          | 12   | 2.3                 | 2.14                | 1.96                | 1.38                | 177    | 6.97  | 35    | 1.38 | 61     | 2.40  | 67           | 2.64  | 0.92             | 2.03  | F1               | 1100          |
| HGL2.612          | 12   | 2.6                 | 2.42                | 2.21                | 1.56                | 178    | 7.01  | 35    | 1.38 | 60     | 2.36  | 66           | 2.60  | 1.02             | 2.25  | F1               | 990           |
| HGL2.912          | 12   | 2.9                 | 2.70                | 2.47                | 1.74                | 80     | 3.15  | 55.5  | 2.19 | 98     | 3.86  | 104          | 4.09  | 1.20             | 2.65  | F1               | 900           |
| HGL3.312          | 12   | 3.3                 | 2.98                | 2.72                | 1.92                | 134    | 5.28  | 67    | 2.64 | 61     | 2.40  | 67           | 2.64  | 1.15             | 2.54  | F1               | 720           |
| HGL4.12           | 12   | 4                   | 3.72                | 3.40                | 2.40                | 90     | 3.54  | 70    | 2.76 | 101    | 3.98  | 107          | 4.21  | 1.39             | 3.06  | F1               | 600           |
| HGL5.12           | 12   | 5                   | 4.65                | 4.25                | 3.00                | 90     | 3.54  | 70    | 2.76 | 101    | 3.98  | 107          | 4.21  | 1.48             | 3.26  | F1               | 600           |
| HGL7.212          | 12   | 7.2                 | 6.8                 | 6.12                | 4.32                | 151    | 5.94  | 65    | 2.56 | 95     | 3.74  | 101          | 3.98  | 2.30             | 5.07  | F1               | 480           |
| HGL8.512          | 12   | 8.5                 | 7.9                 | 6.95                | 4.95                | 151    | 5.94  | 65    | 2.56 | 95     | 3.74  | 101          | 3.98  | 2.60             | 5.73  | F1               | 450           |
| HGL10.12          | 12   | 10                  | 9.3                 | 8.5                 | 6                   | 151    | 5.94  | 65    | 2.56 | 111    | 4.37  | 117          | 4.61  | 3.30             | 7.28  | F1               | 336           |
| HGL12.12          | 12   | 12                  | 11.2                | 10.2                | 7.2                 | 151    | 5.94  | 99    | 3.90 | 95     | 3.74  | 101          | 3.98  | 3.75             | 8.27  | F1               | 264           |

HGL Series General Specifications

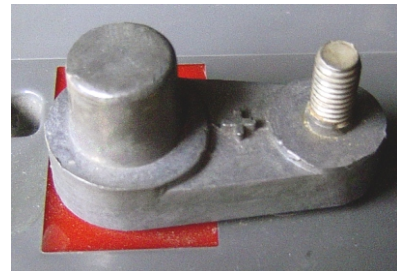
| Fullriver<br>Type | Volt | Nominal<br>Capacity | Nominal<br>Capacity | Nominal<br>Capacity | Nominal<br>Capacity | Length |       | Width |       | Height |       | Total Height |       | Weight (Approx.) |        | Terminal<br>Type | Pallet<br>QTY |
|-------------------|------|---------------------|---------------------|---------------------|---------------------|--------|-------|-------|-------|--------|-------|--------------|-------|------------------|--------|------------------|---------------|
|                   |      | C20                 | C10                 | C5                  | C1                  |        |       |       |       |        |       |              |       |                  |        |                  |               |
|                   |      | 1.75 V/C            | 1.75 V/C            | 1.70V/C             | 1.60V/C             | mm     | in    | mm    | in    | mm     | in    | mm           | in    | kg               | pound  |                  |               |
| HGL1812           | 12   | 18                  | 16.7                | 15.3                | 10.8                | 181    | 7.13  | 77    | 3.03  | 167    | 6.57  | 167          | 6.57  | 5.50             | 12.13  | M5               | 192           |
| HGL2212           | 12   | 22                  | 20.5                | 18.7                | 13.2                | 181    | 7.13  | 77    | 3.03  | 167    | 6.57  | 167          | 6.57  | 6.05             | 13.34  | M5               | 192           |
| HGL2412           | 12   | 24                  | 22.3                | 20.4                | 14.4                | 165    | 6.50  | 176   | 6.93  | 125    | 4.92  | 125          | 4.92  | 7.70             | 16.98  | M5               | 120           |
| HGL2612           | 12   | 26                  | 24.2                | 22.1                | 15.6                | 165    | 6.50  | 176   | 6.93  | 125    | 4.92  | 125          | 4.92  | 7.80             | 17.20  | M6               | 120           |
| HGL2812           | 12   | 28                  | 26.0                | 23.8                | 16.8                | 166    | 6.54  | 126   | 4.96  | 174    | 6.85  | 174          | 6.85  | 8.60             | 18.96  | M5               | 114           |
| HGL3312           | 12   | 33                  | 30.7                | 28.1                | 19.8                | 196    | 7.72  | 131   | 5.16  | 155    | 6.10  | 167          | 6.57  | 10.20            | 22.49  | M6               | 100           |
| HGL3512           | 12   | 35                  | 32.6                | 29.8                | 21.0                | 196    | 7.72  | 131   | 5.16  | 155    | 6.10  | 167          | 6.57  | 10.30            | 22.71  | M6               | 100           |
| HGL3812           | 12   | 38                  | 35.3                | 32.3                | 22.8                | 198    | 7.80  | 166   | 6.54  | 170    | 6.69  | 170          | 6.69  | 13.30            | 29.32  | M6               | 72            |
| HGL4012           | 12   | 40                  | 37.2                | 34.0                | 24.0                | 198    | 7.80  | 166   | 6.54  | 174    | 6.85  | 174          | 6.85  | 13.40            | 29.54  | M6               | 72            |
| HGL4512           | 12   | 45                  | 41.9                | 38.3                | 27.0                | 198    | 7.80  | 166   | 6.54  | 174    | 6.85  | 174          | 6.85  | 13.50            | 29.76  | M6               | 72            |
| HGL5012           | 12   | 50                  | 47.5                | 43.0                | 31.2                | 229    | 9.02  | 138   | 5.43  | 208    | 8.19  | 212          | 8.35  | 17.10            | 37.70  | M6               | 63            |
| HGL5512           | 12   | 55                  | 51.2                | 47.3                | 34.5                | 229    | 9.02  | 138   | 5.43  | 208    | 8.19  | 212          | 8.35  | 17.20            | 37.92  | M6               | 63            |
| HGL6012           | 12   | 60                  | 55.8                | 51.0                | 36.0                | 229    | 9.02  | 138   | 5.43  | 208    | 8.19  | 212          | 8.35  | 17.30            | 38.14  | M6               | 63            |
| HGL6512           | 12   | 65                  | 61.0                | 57.0                | 40.3                | 351    | 13.82 | 167   | 6.57  | 176    | 6.93  | 176          | 6.93  | 21.20            | 46.74  | M6               | 48            |
| HGL7012           | 12   | 70                  | 66.3                | 61.0                | 43.0                | 260    | 10.24 | 169   | 6.65  | 211    | 8.31  | 215          | 8.46  | 21.90            | 48.28  | M6               | 48            |
| HGL7512           | 12   | 75                  | 70                  | 63.8                | 45.0                | 260    | 10.24 | 169   | 6.65  | 211    | 8.31  | 215          | 8.46  | 23.10            | 50.93  | M6               | 48            |
| HGL8012           | 12   | 80                  | 74                  | 68                  | 48                  | 351    | 13.82 | 167   | 6.57  | 179    | 7.05  | 183          | 7.20  | 26.00            | 57.32  | M6               | 36            |
| HGL9012           | 12   | 90                  | 84                  | 76.5                | 54                  | 307    | 12.09 | 169   | 6.65  | 211    | 8.31  | 215          | 8.46  | 28.20            | 62.17  | M6               | 36            |
| HGL10012A         | 12   | 100                 | 93                  | 85                  | 60                  | 328    | 12.91 | 172   | 6.77  | 214    | 8.43  | 220          | 8.66  | 30.40            | 67.02  | M8               | 36            |
| HGL10012B         | 12   | 100                 | 93                  | 85                  | 60                  | 331    | 13.03 | 175   | 6.89  | 214    | 8.43  | 218          | 8.58  | 30.50            | 67.24  | M8               | 36            |
| HGL10012C         | 12   | 100                 | 93                  | 85                  | 60                  | 307    | 12.09 | 169   | 6.65  | 211    | 8.31  | 215          | 8.46  | 30.60            | 67.46  | M6               | 36            |
| HGL12012A         | 12   | 120                 | 112                 | 102                 | 72                  | 407    | 16.02 | 174   | 6.85  | 210    | 8.27  | 240          | 9.45  | 37.60            | 82.89  | M8               | 27            |
| HGL12012B         | 12   | 120                 | 110                 | 98                  | 68                  | 331    | 13.03 | 175   | 6.89  | 214    | 8.43  | 218          | 8.58  | 32.00            | 70.55  | M8               | 36            |
| HGL14012          | 12   | 140                 | 130                 | 119                 | 84                  | 341    | 13.43 | 173   | 6.81  | 281    | 11.06 | 287          | 11.30 | 42.50            | 93.70  | M8               | 24            |
| HGL16012          | 12   | 160                 | 149                 | 136                 | 96                  | 484    | 19.06 | 171   | 6.73  | 241    | 9.49  | 241          | 9.49  | 45.70            | 100.75 | M8               | 24            |
| HGL18012          | 12   | 180                 | 167                 | 153                 | 108                 | 530    | 20.87 | 209   | 8.23  | 214    | 8.43  | 218          | 8.58  | 55.30            | 121.92 | M8               | 21            |
| HGL20012          | 12   | 200                 | 186                 | 170                 | 120                 | 530    | 20.87 | 209   | 8.23  | 214    | 8.43  | 218          | 8.58  | 57.60            | 126.99 | M8               | 21            |
| HGL21012          | 12   | 210                 | 195                 | 178.5               | 126                 | 522    | 20.55 | 242   | 9.53  | 218    | 8.58  | 222          | 8.74  | 61.00            | 134.48 | M8               | 18            |
| HGL23012          | 12   | 230                 | 214                 | 195.5               | 138                 | 522    | 20.55 | 242   | 9.53  | 218    | 8.58  | 222          | 8.74  | 64.50            | 142.20 | M8               | 18            |
| HGL24012          | 12   | 240                 | 223                 | 204                 | 144                 | 520    | 20.47 | 269   | 10.59 | 204    | 8.03  | 208          | 8.19  | 70.20            | 154.76 | M8               | 18            |
| HGL26012          | 12   | 260                 | 242                 | 221                 | 156                 | 521    | 20.51 | 269   | 10.59 | 220    | 8.66  | 224          | 8.82  | 75.50            | 166.45 | M8               | 12            |



## Terminal configurations



**M5、M6、M8 or M10**  
(Button Terminal)



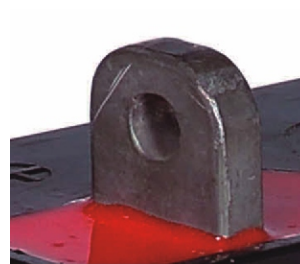
**APW**  
(Marine Dual Terminal)



**DT**  
(AP and Stud Terminal)



**M6M、M8M、M10M**  
(Male Stud Terminal)



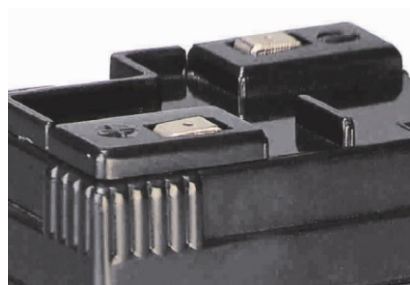
**L**  
(“L” Terminal)



**AP**  
(Automotive Post)



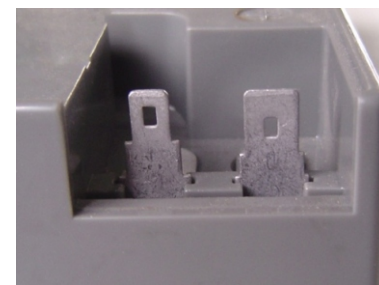
**F2 or F1**  
(Fasten Tab 250&187)



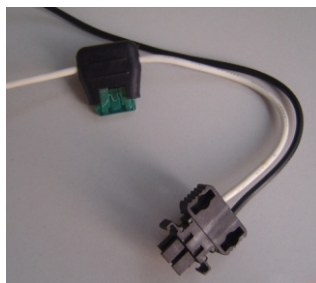
**RB**



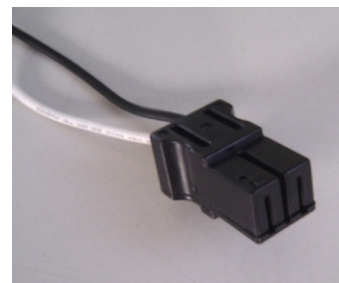
**TS**



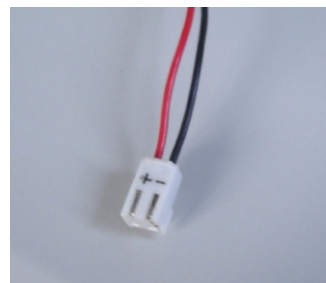
**PL**



**TH**



**CQ**



**C01**



**S01**

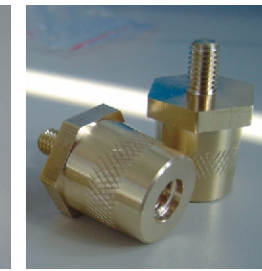
## Battery accessories



**TP01 (TP02)**  
M8(M6)-AP Terminal



**TP04 (TP05)**  
M8(M6)-A01 Terminal



**TP08 (TP07)**  
M8(M6)-A01 Terminal,  
With knurling



**TP26**  
M6-A01 Terminal



**TP28 (TP29)**  
M8 (M6) - A01 Terminal



**FR45 (FR46)**  
Side Receptacles for  
HC65 (HC75)



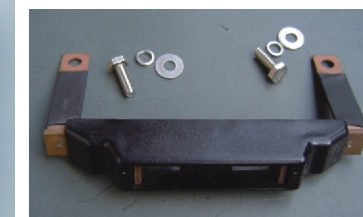
**AP400**  
Terminal Cover



**LP100**  
Terminal Cover



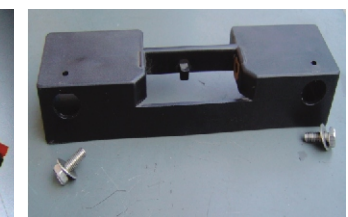
**VP100**  
Terminal Cover



**Adaptor**  
for DC26-12B



**JSTE Cables**  
for DC20-12&DC17-12



**Adaptor**  
for DC35-12B



**Adaptor**  
for DC24-12



**Metal Jacket**



**Battery Bag**  
for DC35, DC17,  
DC20, DC26



**Cross Belt**  
for DC35,  
DC17, DC20