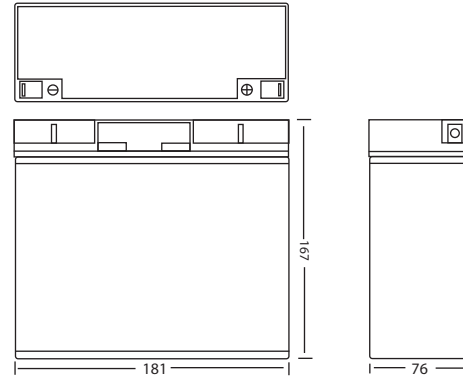


# HGL 15-12

## Valve Regulated Sealed Lead-Acid Battery



Dimensions (mm)



### Specifications

|                                |                                  |       |
|--------------------------------|----------------------------------|-------|
| Nominal Voltage                |                                  | 12V   |
| Rated Capacity (20 hours rate) |                                  | 15Ah  |
| Dimensions<br>(± 2mm)          | Total Height<br>(with terminals) | 167mm |
|                                | Length                           | 181mm |
|                                | Width                            | 76mm  |
|                                | Height                           | 167mm |
| Approx. Weight                 |                                  | 5.6kg |
| Terminal                       | Standard                         | L1    |
|                                | Optional                         | C1    |

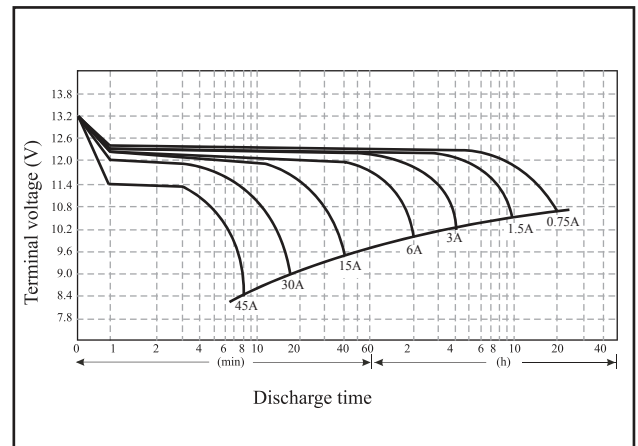
### Characteristics

|   |                                  |                 |                      |
|---|----------------------------------|-----------------|----------------------|
| Capacity<br>(25°C)                                    | 20 hour rate(750mA)              | 15Ah            |                      |
|   | 10 hour rate(1.39A)              | 13.9Ah          |                      |
|   | 5 hour rate(2.54A)               | 12.7Ah          |                      |
|   | 1 hour rate(9.0A)                | 9.0Ah           |                      |
| Internal Resistance                                   | Fully charged Battery 25°C       | Approx. 13m     |                      |
| Capacity affected<br>by temperature<br>(20 hour rate) | 40°C                             | 102%            |                      |
|   | 25°C                             | 100%            |                      |
|   | 0°C                              | 85%             |                      |
|   | -15°C                            | 65%             |                      |
| Self Discharge<br>(25°C)                              | Capacity after 3 months storage  | 91%             |                      |
|   | Capacity after 6 months storage  | 82%             |                      |
|   | Capacity after 12 months storage | 64%             |                      |
| Charge Method<br>(Constant Voltage)                   | Cycle use                        | Initial Current | 3A or smaller        |
|   |                                  | Control Voltage | 14.5 to 14.9V (25°C) |
|   | Standby use                      | Initial Current | 3A or smaller        |
|   |                                  | Control Voltage | 13.6 to 13.8V(25°C)  |

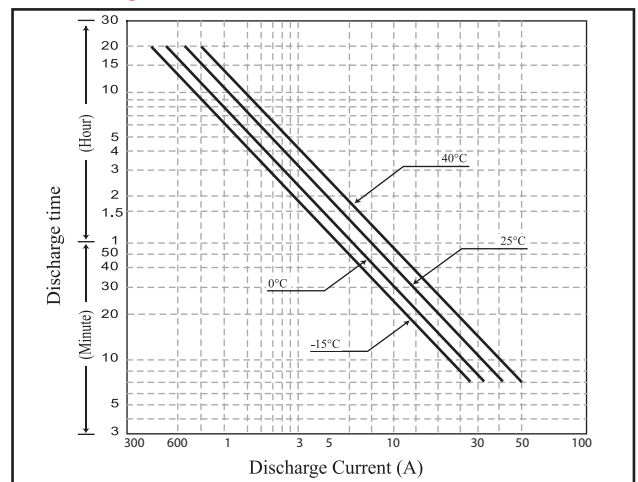
### Constant wattage discharge (Watts/battery@25°C)

| EV/CELL | 5min  | 10min | 30min | 1H    | 3H   | 5H   | 8H   | 10H  | 20H |
|---------|-------|-------|-------|-------|------|------|------|------|-----|
| 1.85V   | 345.2 | 271.9 | 143.6 | 92.0  | 32.2 | 27.7 | 15.7 | 15.7 | 8.2 |
| 1.80V   | 423.6 | 310.2 | 157.9 | 95.9  | 42.4 | 28.3 | 15.8 | 15.8 | 8.3 |
| 1.75V   | 448.8 | 318.2 | 165.2 | 100.6 | 45.4 | 28.8 | 16.4 | 16.4 | 8.8 |
| 1.70V   | 479.9 | 332.3 | 169.3 | 105.2 | 45.5 | 29.8 | 16.5 | 16.5 | 8.8 |
| 1.60V   | 525.9 | 358.1 | 175.3 | 105.2 | 45.7 | 30.0 | 16.9 | 16.9 | 8.8 |

### Discharge Characteristics



### Discharge current & Duration Time



\* The above data are average and obtained within three charge/discharge cycles. Cycles not the minimum values.