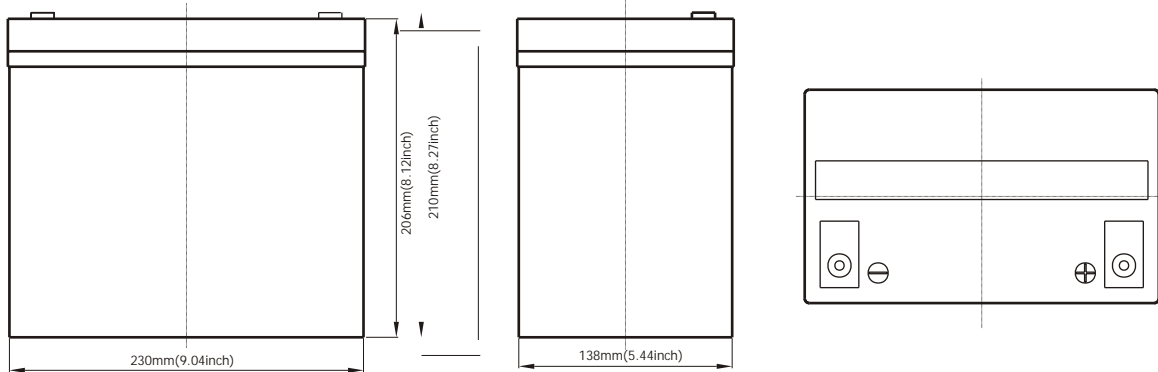


**Standard Terminal Dimensions**  
(Optional terminal please check terminal information page)



### HR Range

HR(Hight Rate)range Valve Regulated Lead Acid (VRLA) batteries have been developed with high efficiency active materials to stimulate inside the battery with higher power output when the battery is discharged to a extent level of discharging. Along with high-density structure design for relatively smaller inner resistance which will significantly improve the performance for high rate discharging when high power output service is needed.

### Application

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

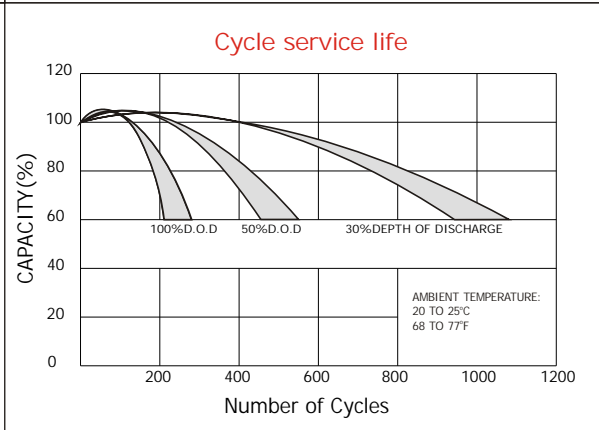
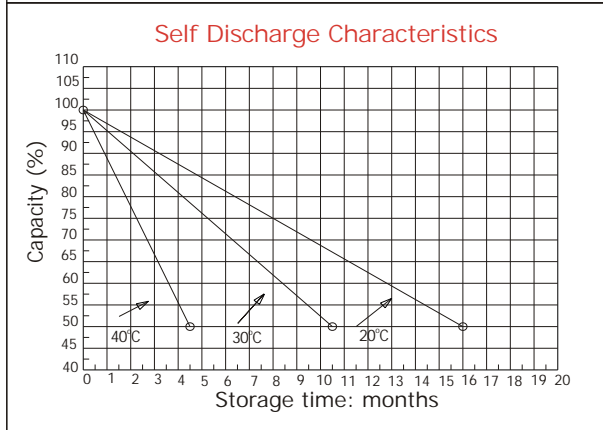
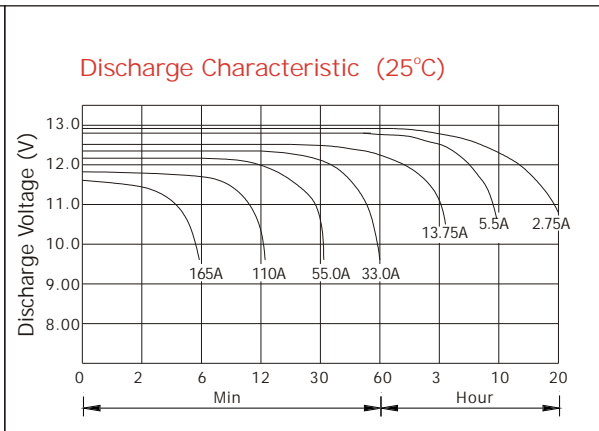
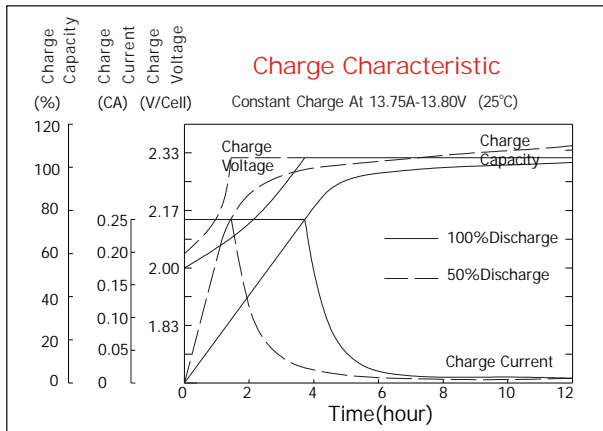
### General Features

- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- 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 .....Lead
- Separator .....Fiber glass
- Electrolyte .....Sulfuric acid

|                                  |   |                  |                      |                  |
|----------------------------------|---|------------------|----------------------|------------------|
| Battery Model                    | GT12-55HR-2 (200W to 1.67V, 15min)          |                  |                      |                  |
| Designed Floating Life           | 6-8 Years                                   |                  |                      |                  |
| Capacity(25°C)                   | 20HR(2.8A,1.75V)                            | 10HR(5.5A,1.75V) | 5HR(9.4A,1.75V)      | 1HR(36.5A,1.75V) |
|                                  | 56AH  | 55AH             | 47AH                 | 36.5AH           |
| Dimensions                       | Length                                      | Width            | Height               | Total Height     |
|                                  | 230mm(9.04inch)                             | 138mm(5.44inch)  | 206mm(8.12inch)      | 210mm(8.27inch)  |
| Approx. Weight                   | 17.0Kg (37.5 lbs)                           |                  |                      |                  |
| Internal Resistance              | Full charged at 25°C :0.006 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            |                  |
|                                  | 14.4-14.8V(-30mV/ °C), max. Current: 13.8A  |                  | 13.6-13.8(-20mV/ °C) |                  |



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

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 8HR  | 10HR | 20HR |
|----------|------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V    | 236  | 147   | 111   | 67.6  | 39.1 | 17.2 | 10.5 | 6.85 | 5.71 | 3.09 |
| 1.67V    | 222  | 139   | 107   | 64.7  | 38.6 | 16.5 | 10.3 | 6.76 | 5.66 | 2.98 |
| 1.70V    | 203  | 134   | 104   | 58.8  | 37.4 | 15.4 | 10.0 | 6.64 | 5.63 | 2.93 |
| 1.75V    | 199  | 130   | 101   | 55.9  | 35.6 | 14.9 | 9.83 | 6.58 | 5.61 | 2.85 |
| 1.80V    | 178  | 124   | 91.6  | 51.8  | 33.4 | 14.3 | 9.24 | 6.33 | 5.50 | 2.78 |
| 1.85V    | 157  | 118   | 82.4  | 47.6  | 31.1 | 13.8 | 8.65 | 6.10 | 5.43 | 2.74 |

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

| F.V/Time | 5MN | 10MN | 15MN | 30MN | 1HR  | 3HR  | 5HR  | 8HR | 10HR | 20HR |
|----------|-----|------|------|------|------|------|------|-----|------|------|
| 1.60V    | 415 | 266  | 203  | 122  | 705  | 304  | 177  | 128 | 117  | 6.16 |
| 1.67V    | 400 | 259  | 200  | 119  | 70.1 | 295  | 176  | 128 | 117  | 5.94 |
| 1.70V    | 377 | 256  | 198  | 112  | 688  | 282  | 174  | 127 | 116  | 5.87 |
| 1.75V    | 379 | 255  | 197  | 108  | 676  | 275  | 173  | 125 | 114  | 5.72 |
| 1.80V    | 347 | 252  | 182  | 103  | 63.7 | 26.7 | 16.7 | 123 | 113  | 5.67 |
| 1.85V    | 315 | 239  | 165  | 96.8 | 59.9 | 25.9 | 16.2 | 120 | 11.1 | 5.55 |

