

# 5GVRLA Series

## 5GVRLA12 12V12Ah

5GVRLA series battery uses AGM technology and high-purity raw materials. Its good floating back up and large current discharge performance makes it optimal and economical choice for UPS/EPS.

### Benefits

- Standard Commercial according to EUROBAT Classification
- Maximum charge efficiency
- High gas recombination efficiency
- Low self-discharge rate
- Easy installation and handling
- Vertical or horizontal installation

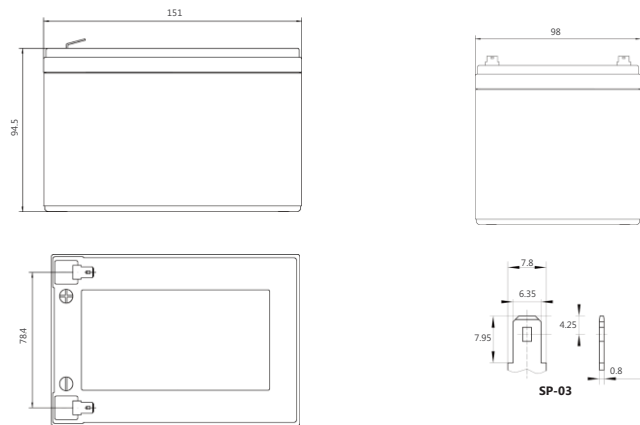
### Applications

- UPS units
- Emergency power
- Starting generators
- EPS units

### Standards

- IEC 61056-1/2
- JIS C8702-1/2
- EUROBAT guide

### Drawing



### Specifications

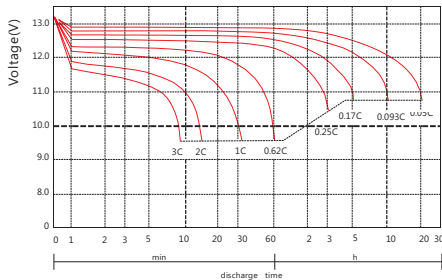
|                                      |  |                    |                       |                   |
|--------------------------------------|--|--------------------|-----------------------|-------------------|
| Battery Model                        | 5GVRLA12   |                    |                       |                   |
| Design Life (years, 25°C)            | 5  |                    |                       |                   |
| Capacity (Ah, 25°C)                  | 20HR (0.60A, 1.75V)                              | 10HR (1.1A, 1.75V) | 5HR (1.92A, 1.75V)    | 1HR(7.49A, 1.70V) |
|                                      | 12   | 11                 | 9.6                   | 7.49              |
| Dimensions (mm)                      | Length   | Width              | Height                | Total Height      |
|                                      | 151  | 98                 | 94.5                  | 100               |
| Approx. Weight (kg)                  | 3.57   |                    |                       |                   |
| Reference Internal Resistance (mK)   | 14 ( full charged @ 25°C)                        |                    |                       |                   |
| Maximum Discharge Current (A/5 Sec.) | 180  |                    |                       |                   |
| Self-Discharge (25°C)                | ≤3% per month                                    |                    |                       |                   |
| Charge Voltage (V/cell, 25°C)        | Cycle use  |                    | Float use             |                   |
|                                      | 2.45 (-3.5mV/°C/cell), max charge current: 3.6 A |                    | 2.27 (-3.5mV/°C/cell) |                   |
| Short Circuit Current (A)            | 310  |                    |                       |                   |

## Discharge Data

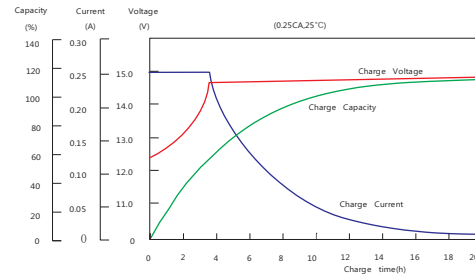
| Constant Current Discharge Data (25°C, A) |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| End Voltage (V/cell)                      | min   |       |       |       |       |       | h     |       |       |       |       |       |       |
|   | 5     | 10    | 15    | 20    | 30    | 45    | 1     | 1.5   | 2     | 3     | 5     | 10    | 20    |
| 1.60                                      | 45.71 | 29.03 | 22.06 | 17.42 | 13.01 | 9.724 | 7.673 | 5.491 | 4.248 | 2.993 | 1.970 | 1.122 | 0.611 |
| 1.65                                      | 44.34 | 28.36 | 21.59 | 17.09 | 12.79 | 9.568 | 7.571 | 5.423 | 4.198 | 2.955 | 1.953 | 1.115 | 0.607 |
| 1.67                                      | 43.88 | 28.02 | 21.43 | 16.99 | 12.71 | 9.494 | 7.534 | 5.391 | 4.178 | 2.944 | 1.947 | 1.111 | 0.605 |
| 1.70                                      | 43.02 | 27.82 | 21.29 | 16.85 | 12.61 | 9.448 | 7.490 | 5.370 | 4.157 | 2.929 | 1.937 | 1.107 | 0.604 |
| 1.75                                      | 39.00 | 25.90 | 20.16 | 16.17 | 12.20 | 9.200 | 7.329 | 5.280 | 4.100 | 2.900 | 1.920 | 1.100 | 0.600 |
| 1.80                                      | 34.79 | 23.70 | 18.81 | 15.31 | 11.71 | 8.896 | 7.160 | 5.190 | 4.043 | 2.865 | 1.899 | 1.090 | 0.596 |

| Constant Power Discharge Data (25°C, W/cell) |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| End Voltage (V/cell)                         | min   |       |       |       |       |       | h     |       |       |       |       |       |       |
|  | 5     | 10    | 15    | 20    | 30    | 45    | 1     | 1.5   | 2     | 3     | 5     | 10    | 20    |
| 1.60   | 83.57 | 54.50 | 41.90 | 33.39 | 25.16 | 18.96 | 15.05 | 10.81 | 8.390 | 5.933 | 3.917 | 2.237 | 1.220 |
| 1.65   | 81.30 | 53.42 | 41.13 | 32.86 | 24.80 | 18.71 | 14.89 | 10.71 | 8.311 | 5.871 | 3.890 | 2.228 | 1.215 |
| 1.67   | 80.57 | 53.11 | 40.99 | 32.81 | 24.72 | 18.60 | 14.83 | 10.66 | 8.285 | 5.854 | 3.884 | 2.222 | 1.212 |
| 1.70   | 79.15 | 52.58 | 40.70 | 32.49 | 24.54 | 18.52 | 14.76 | 10.63 | 8.252 | 5.832 | 3.868 | 2.217 | 1.211 |
| 1.75   | 72.22 | 49.10 | 38.66 | 31.30 | 23.82 | 18.10 | 14.47 | 10.47 | 8.155 | 5.785 | 3.842 | 2.206 | 1.205 |
| 1.80   | 64.76 | 45.07 | 36.25 | 29.79 | 22.94 | 17.53 | 14.19 | 10.32 | 8.061 | 5.725 | 3.807 | 2.190 | 1.200 |

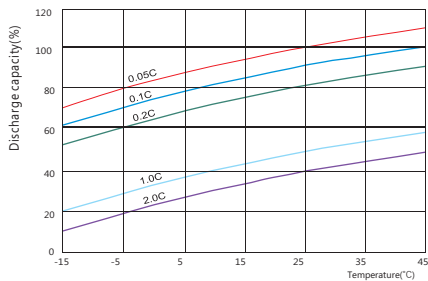
## Performance Curve



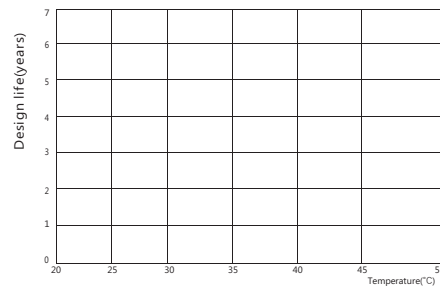
Discharge voltage vs. discharge time



Charge capacity vs. charge time



Discharge capacity vs. temperature



Design life vs. temperature

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