

# SP Series

## SSP12-5 12V5Ah



SP series VRLA 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

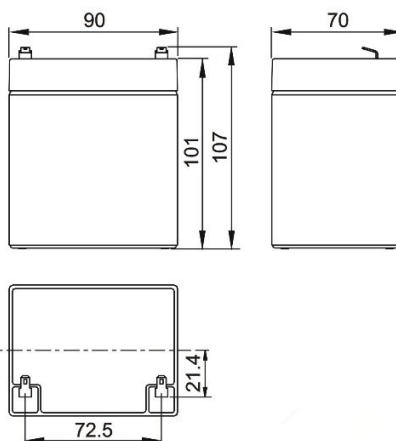
- Standard Commercial according to EUROBAT Classification
- Maximum charge efficiency
- High gas recombination efficiency
- Low self-discharge rate
- Easy installation and handling
- Vertical or horizontal installation

### Performance Curve

### Applications

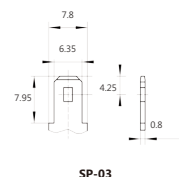
- UPS units
- Emergency power
- Starting generators
- EPS units

### Drawing



### Standards

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



### Specifications

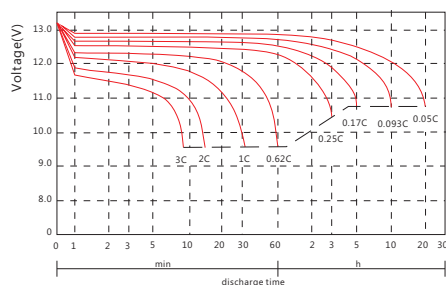
|                                      |                                               |                     |                     |                   |
|--------------------------------------|-----------------------------------------------|---------------------|---------------------|-------------------|
| Battery Model                        | SSP12-5                                       |                     |                     |                   |
| Design Life (years, 25°C)            | 5                                             |                     |                     |                   |
| Capacity (Ah, 25°C)                  | 20HR (0.25A, 1.75V)                           | 10HR (0.43A, 1.75V) | 5HR (0.75A, 1.75V)  | 1HR(2.42A, 1.70V) |
|                                      | 5                                             | 4.3                 | 3.75                | 2.42              |
| Dimensions (mm)                      | Length                                        | Width               | Height              | Total Height      |
|                                      | 90                                            | 70                  | 101                 | 107               |
| Approx. Weight (kg)                  | 1.62                                          |                     |                     |                   |
| Reference Internal Resistance (mΩ)   | 22 ( full charged @ 25°C)                     |                     |                     |                   |
| Maximum Discharge Current (A/5 Sec.) | 75                                            |                     |                     |                   |
| Self-Discharge (25°C)                | ≤ 3% per month                                |                     |                     |                   |
| Charge Voltage (V/cell, 25°C)        | Cycle use                                     |                     | Float use           |                   |
|                                      | 2.45 (-4mV/°C/cell), max charge current: 1.5A |                     | 2.27 (-3mV/°C/cell) |                   |
| Short Circuit Current (A)            | 150                                           |                     |                     |                   |

## Discharge Data

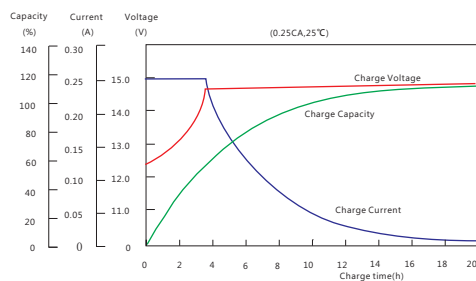
| Constant Current Discharge Data (25°C, A) |       |       |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------------------------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
| End Voltage (V/cell)                      | min   |       |      |      |      |      |      | h    |      |      |      |      |      |
|                                           | 5     | 10    | 15   | 20   | 30   | 45   | 60   | 1.5  | 2    | 3    | 5    | 10   | 20   |
| 1.60                                      | 17.72 | 11.6  | 8.96 | 6.94 | 4.93 | 3.3  | 2.49 | 1.98 | 1.55 | 1.14 | 0.76 | 0.44 | 0.25 |
| 1.65                                      | 17.61 | 11.5  | 8.73 | 6.77 | 4.84 | 3.26 | 2.47 | 1.98 | 1.54 | 1.12 | 0.76 | 0.44 | 0.25 |
| 1.70                                      | 17.37 | 11.26 | 8.56 | 6.66 | 4.77 | 3.2  | 2.42 | 1.97 | 1.53 | 1.11 | 0.75 | 0.43 | 0.25 |
| 1.75                                      | 16.61 | 10.63 | 8.03 | 6.3  | 4.59 | 3.15 | 2.43 | 1.94 | 1.5  | 1.11 | 0.75 | 0.43 | 0.25 |
| 1.80                                      | 15.07 | 9.83  | 7.51 | 5.94 | 4.39 | 3.04 | 2.37 | 1.91 | 1.49 | 1.1  | 0.75 | 0.41 | 0.24 |

| Constant Power Discharge Data (25°C, W/cell) |       |       |       |       |      |      |      |      |      |      |      |      |      |
|----------------------------------------------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| End Voltage (V/cell)                         | min   |       |       |       |      |      |      | h    |      |      |      |      |      |
|                                              | 5     | 10    | 15    | 20    | 30   | 45   | 60   | 1.5  | 2    | 3    | 5    | 10   | 20   |
| 1.60                                         | 33.02 | 22.22 | 17.23 | 13.42 | 9.66 | 6.52 | 4.95 | 3.95 | 3.11 | 2.27 | 1.53 | 0.88 | 0.50 |
| 1.65                                         | 32.81 | 22.02 | 16.78 | 13.11 | 9.50 | 6.44 | 4.91 | 3.94 | 3.08 | 2.25 | 1.52 | 0.86 | 0.50 |
| 1.70                                         | 32.37 | 21.58 | 16.47 | 12.89 | 9.37 | 6.33 | 4.82 | 3.91 | 3.05 | 2.23 | 1.49 | 0.86 | 0.49 |
| 1.75                                         | 30.96 | 20.36 | 15.43 | 12.19 | 9.00 | 6.21 | 4.82 | 3.86 | 3.01 | 2.21 | 1.49 | 0.85 | 0.49 |
| 1.80                                         | 28.08 | 18.84 | 14.44 | 11.50 | 8.62 | 6.01 | 4.71 | 3.80 | 2.98 | 2.20 | 1.48 | 0.84 | 0.46 |

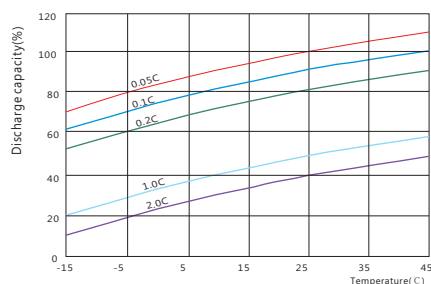
## Performance Curve



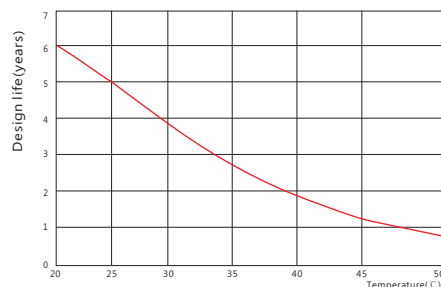
Discharge voltage vs. discharge time



Charge capacity vs. charge time



Discharge capacity vs. temperature



Design life vs. temperature

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