

SP Series

SSP12-12 12V12Ah

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

- Long life according to EUROBAT Classification
- Maximum charge efficiency
- High gas recombination efficiency
- Low self-discharge rate
- Easy installation and handling
- Vertical installation

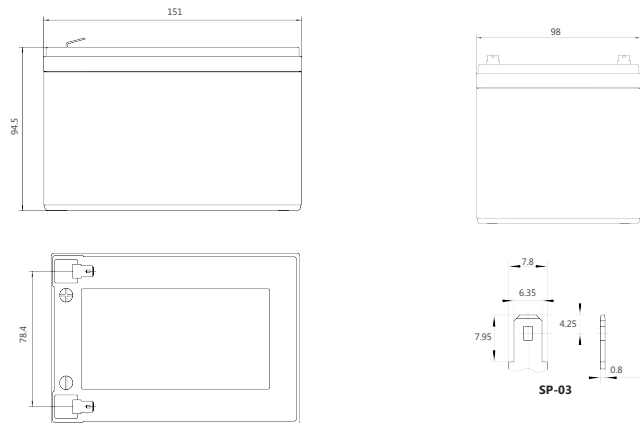
Applications

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

Standards

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

Drawing



Specifications

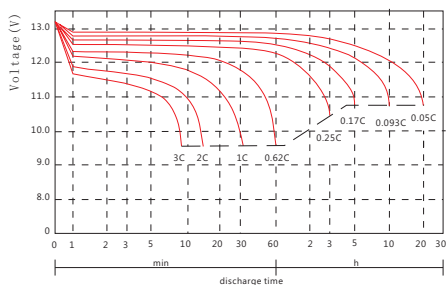
| | | | | |
|--------------------------------------|---|--------------------|-----------------------|-------------------|
| Battery Model | SP12-12 | | | |
| Design Life (years, 25°C) | 5 | | | |
| Capacity (Ah, 25°C) | 20HR (0.60A, 1.75V) | 10HR (1.1A, 1.75V) | 5HR (1.92A, 1.75V) | 1HR(7.49A, 1.70V) |
| | 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 (mΩ) | 15±15%(full charged @ 25°C,testing device:HIOKIBT3562) | | | |
| Maximum Discharge Current (A/3 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: 3.6A | | 2.27 (-3.5mV/°C/cell) | |
| Short Circuit Current (A) | 310 | | | |

Discharge Data

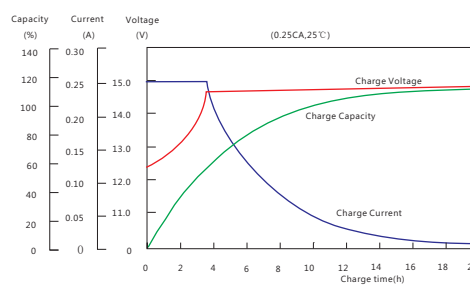
| Constant Current Discharge Data (25°C, A) | | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| End Voltage (V/cell) | min | | | | | | h | | | | | | |
| | 5 | 10 | 15 | 20 | 30 | 45 | 1 | 1.5 | 2 | 3 | 5 | 10 | 20 |
| 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 |

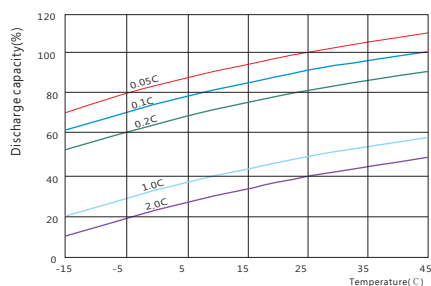
Performance Curve



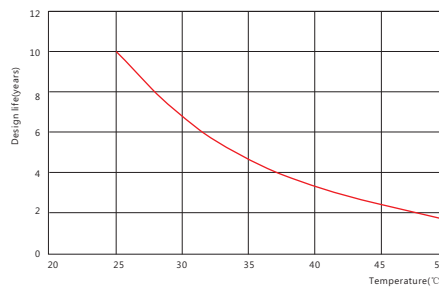
Discharge voltage vs. discharge time



Charge capacity vs. charge time



Discharge capacity vs. temperature



Design life vs. temperature

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