

SP Series

SSP12-24FR 12V24Ah

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

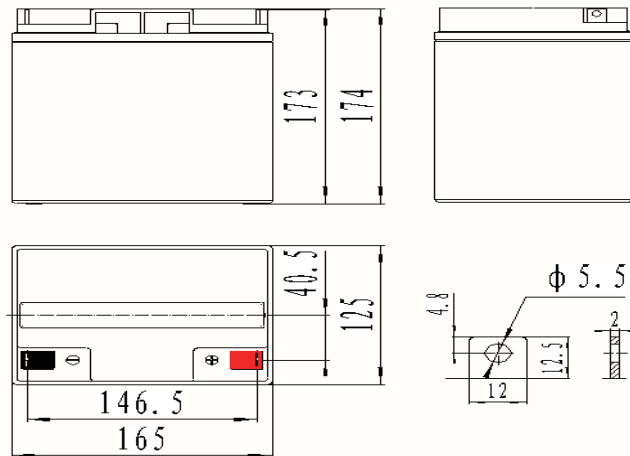
Applications

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

Standards

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

Drawing



Specifications

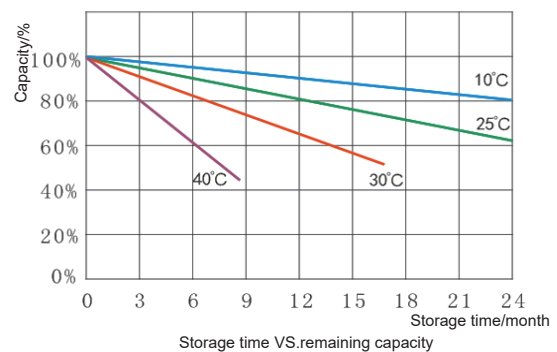
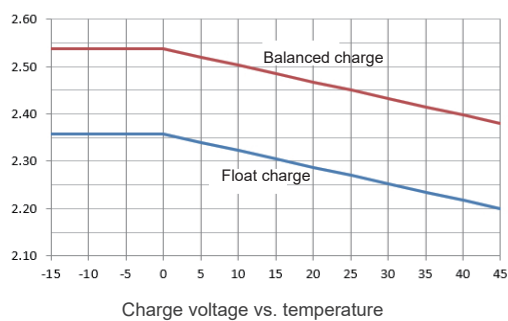
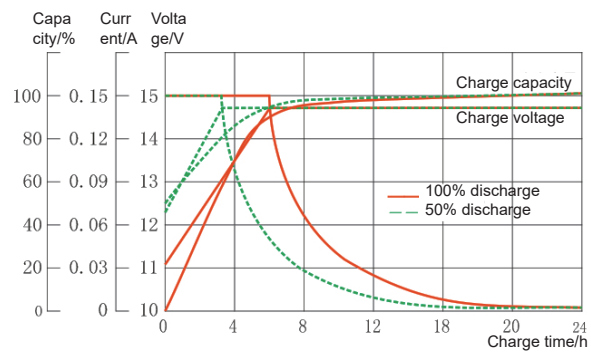
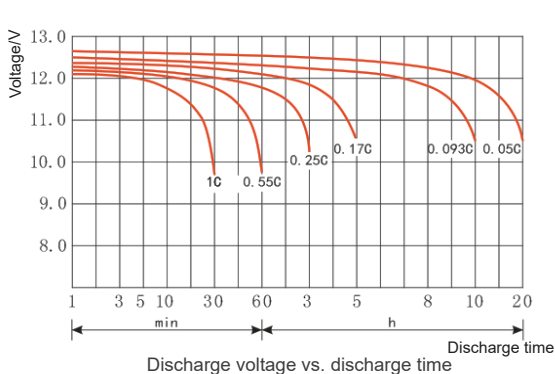
| | | | | |
|--------------------------------------|--|---------------------|-----------------------|-------------------|
| Battery Model | SSP12-24FR | | | |
| Design Life (years, 25°C) | 5 | | | |
| Capacity (Ah, 25°C) | 20HR (1.2A, 1.75V) | 10HR (2.23A, 1.75V) | 5HR (4.08A, 1.75V) | 1HR(14.4A, 1.70V) |
| | 24 | 22.3 | 20.4 | 14.4 |
| Dimensions (mm) | Length | Width | Height | Total Height |
| | 165 | 174 | 125 | 125 |
| Approx. Weight (kg) | 7.6 | | | |
| Reference Internal Resistance (mΩ) | 16 ±15%(full charged @ 25°C,testing device:HIOKIBT3562) | | | |
| Maximum Discharge Current (A/3 Sec.) | 390 | | | |
| Self-Discharge (25°C) | ≤ 2% per month | | | |
| Charge Voltage (V/cell, 25°C) | Cycle use | | Float use | |
| | 2.45 (-3.5mV/°C/cell), max charge current: 7.2A | | 2.27 (-3.5mV/°C/cell) | |
| Short Circuit Current (A) | 620(for reference only) | | | |

Discharge Data

| Constant Current Discharge Data (25°C, A) | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|
| End Voltage (V/cell) | min | | | | | h | | | | | | |
| | 10 | 15 | 20 | 30 | 45 | 1 | 1.5 | 2 | 3 | 5 | 10 | 20 |
| 1.60 | 54.5 | 43.2 | 35.8 | 27.0 | 19.8 | 15.2 | 11.3 | 8.72 | 6.63 | 4.32 | 2.45 | 1.23 |
| 1.65 | 52.4 | 41.8 | 35.0 | 26.5 | 19.2 | 14.7 | 10.8 | 8.46 | 6.45 | 4.26 | 2.38 | 1.22 |
| 1.67 | 51.2 | 41.0 | 34.6 | 26.1 | 19.0 | 14.5 | 10.7 | 8.36 | 6.37 | 4.21 | 2.33 | 1.21 |
| 1.70 | 50.4 | 40.8 | 34.2 | 25.8 | 18.6 | 14.4 | 10.6 | 8.26 | 6.28 | 4.18 | 2.30 | 1.21 |
| 1.75 | 48.4 | 40.0 | 33.5 | 25.2 | 18.0 | 13.8 | 10.2 | 8.08 | 6.14 | 4.08 | 2.23 | 1.20 |
| 1.80 | 46.6 | 39.0 | 32.8 | 24.8 | 17.6 | 13.4 | 9.94 | 7.87 | 5.90 | 3.95 | 2.17 | 1.18 |

| Constant Power Discharge Data (25°C, W/cell) | | | | | | | | | | | | |
|--|-------|------|------|------|------|------|------|------|------|------|------|------|
| End Voltage (V/cell) | min | | | | | h | | | | | | |
| | 10 | 15 | 20 | 30 | 45 | 1 | 1.5 | 2 | 3 | 5 | 10 | 20 |
| 1.60 | 100.0 | 82.6 | 65.0 | 50.0 | 37.8 | 29.3 | 22.7 | 17.0 | 12.4 | 8.24 | 4.65 | 2.58 |
| 1.65 | 97.4 | 79.7 | 63.4 | 48.5 | 37.0 | 28.3 | 22.0 | 16.8 | 12.2 | 8.15 | 4.57 | 2.54 |
| 1.67 | 95.8 | 78.6 | 62.3 | 47.9 | 36.5 | 27.8 | 21.7 | 16.7 | 12.1 | 8.11 | 4.53 | 2.52 |
| 1.70 | 94.0 | 77.3 | 61.0 | 47.2 | 36.0 | 27.4 | 21.5 | 16.6 | 12.0 | 8.08 | 4.50 | 2.50 |
| 1.75 | 90.6 | 74.0 | 59.2 | 46 | 35.0 | 26.5 | 20.8 | 16.2 | 11.8 | 8.02 | 4.44 | 2.47 |
| 1.80 | 87.3 | 71.4 | 57.8 | 44.8 | 34.0 | 25.4 | 20.4 | 16.0 | 11.6 | 7.94 | 4.40 | 2.44 |

Performance Curve



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