

SPG Series

SPG12-390W 12V100Ah

SPG series VRLA battery uses AGM technology and high-purity raw materials. It has good high power discharge, floating backup and fast charging performance. It is mainly used in UPS/EPS standby power supply systems. It can backup power in poor operation environment.

Benefits

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

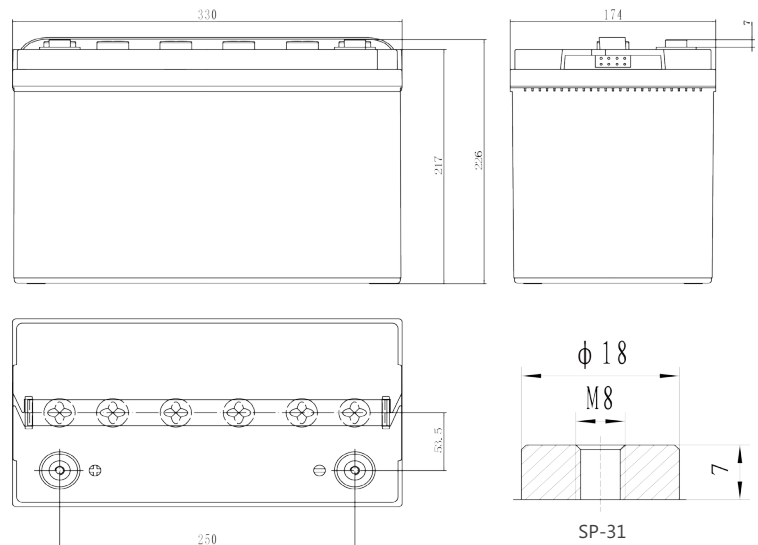
Applications

- UPS units
- Data center
- Starting generators
- EPS units

Standards

- IEC 60896-21/22
- JIS C8704-1/2
- EUROBAT guide

Drawing



Specifications

| | | | | |
|--------------------------------------|---|----------------|-----------------------|------------------|
| Battery Model | SPG12-390W | | | |
| Design Life (years, 25°C) | 12 | | | |
| Capacity (Ah, 25°C) | 10min (1.60V) | 15min (1.67V) | 1HR (60A, 1.75V) | 10HR 10A, 1.80V) |
| | 470W/cell | 390W/cell | 60Ah | 100Ah |
| Dimensions (mm) | Length | Width | Height | Total Height |
| | 330 | 174 | 217 | 226 |
| Approx. Weight (kg) | 30.6 | | | |
| Reference Internal Resistance (mΩ) | 3.60±15%(full charged @ 25°C,testing device:HIOKIBT3562) | | | |
| Maximum Discharge Current (A/3 Sec.) | 1200 | | | |
| Self-Discharge (25°C) | ≤ 2 % per month | | | |
| Charge Voltage (V/cell, 25°C) | Cycle use | | Float use | |
| | 2.40 (-3.5mV/°C/cell), max charge current:30A | | 2.27 (-3.5mV/°C/cell) | |
| Short Circuit Current (A) | 3150(for reference only) | | | |

Discharge Data

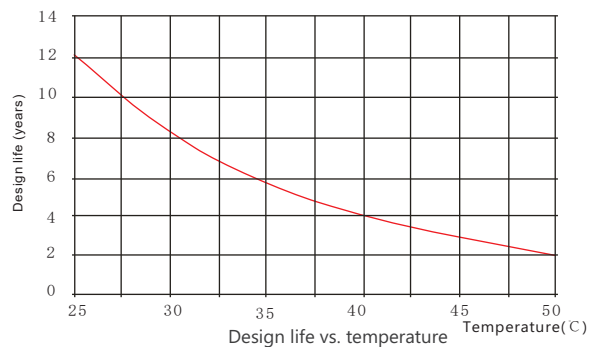
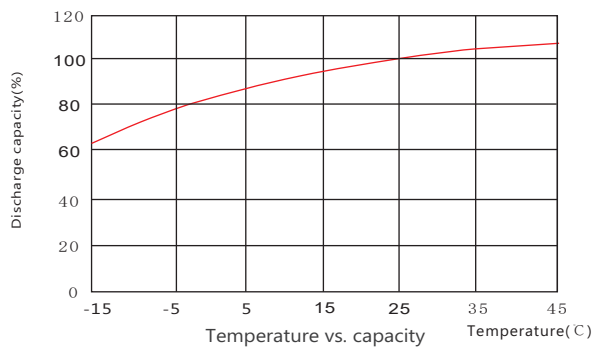
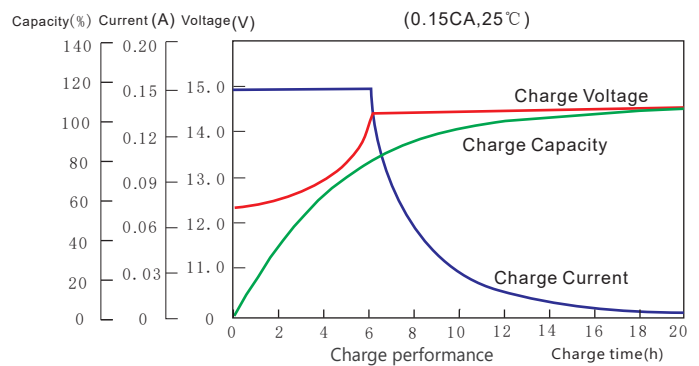
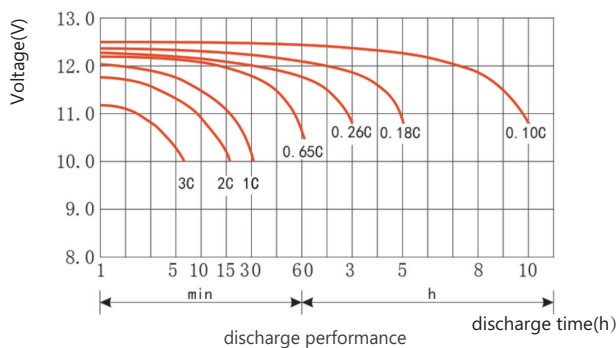
Constant Current Discharge Data (25°C, A)

| End Voltage (V/cell) | min | | | | | | h | | | | | | | |
|----------------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|
| | 10 | 15 | 20 | 25 | 30 | 45 | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 10 |
| 1.60 | 255 | 213 | 175 | 145 | 128 | 91.2 | 70.0 | 50.4 | 39.0 | 29.7 | 22.9 | 19.3 | 16.5 | 10.8 |
| 1.65 | 244 | 208 | 166 | 140 | 123 | 87.7 | 66.7 | 48.8 | 38.0 | 28.8 | 22.3 | 18.7 | 16.0 | 10.6 |
| 1.67 | 238 | 200 | 158 | 136 | 118 | 84.4 | 65.3 | 47.5 | 37.2 | 28.4 | 22.0 | 18.4 | 15.8 | 10.5 |
| 1.70 | 230 | 187 | 154 | 130 | 114 | 81.3 | 61.8 | 46.0 | 36.6 | 27.8 | 21.7 | 18.0 | 15.7 | 10.4 |
| 1.75 | 214 | 176 | 146 | 120 | 107 | 76.5 | 60.0 | 44.6 | 35.6 | 27.0 | 21.2 | 17.7 | 15.4 | 10.2 |
| 1.80 | 198 | 165 | 136 | 114 | 100 | 73.3 | 57.0 | 42.8 | 34.4 | 26.0 | 20.7 | 17.3 | 15.0 | 10.0 |

Constant Power Discharge Data (25°C, W/CELL)

| End Voltage (V/cell) | min | | | | | | h | | | | | | | |
|----------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| | 10 | 15 | 20 | 25 | 30 | 45 | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 10 |
| 1.60 | 470 | 400 | 325 | 282 | 240 | 178 | 137 | 94.0 | 76.3 | 56.8 | 48.0 | 40.3 | 34.3 | 22.4 |
| 1.65 | 452 | 394 | 316 | 274 | 234 | 175 | 132 | 91.0 | 74.8 | 55.0 | 46.6 | 39.2 | 33.4 | 22.0 |
| 1.67 | 442 | 390 | 310 | 268 | 227 | 170 | 130 | 88.6 | 73.0 | 54.3 | 46.0 | 38.3 | 33.0 | 21.8 |
| 1.70 | 430 | 380 | 306 | 262 | 220 | 168 | 124 | 86.7 | 71.8 | 53.5 | 45.2 | 37.7 | 32.7 | 21.6 |
| 1.75 | 405 | 360 | 295 | 250 | 213 | 160 | 120 | 84.8 | 70.3 | 52.0 | 44.0 | 36.8 | 32.0 | 21.2 |
| 1.80 | 380 | 340 | 283 | 240 | 205 | 150 | 118 | 81.0 | 67.8 | 50.2 | 42.8 | 35.8 | 31.3 | 20.8 |

Performance Curve



Sacred Sun Power Sources Co., Ltd.

Add: No.1 Shengyang Road, Qufu 273100 PRC
Tel: +86-537-4422313 Fax: +86-537-4411980
Email: sales@sacredsun.cn

Sacred Sun Hong Kong Co., Limited

Add: RM 19C Lockhart CTR 301-307 Lockhart RD Wan Chai, Hong Kong
Email: admin.hk@sacredsun.hk

Sacred Sun Asia Pacific Pte Ltd.

Add: 1 Ubi View, #04-12, Focus One, Singapore 408555
Email: admin.sg@sacredsun.sg

Sacred Sun Europe SARRL

Add: ZAE Fontaine, 33210 Fargues, France
Email: admin.eu@sacredsun.eu

Sacred Sun MEA FZE

Add: No. 311 office, Building LOB 14, JAFZA, Dubai, UAE
Email: admin.ae@sacredsun.ae

