

# SPG Series

## SPG12-320WB 12V75Ah

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, especially for the temperature of 35°C.



### Benefits

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

### Applications

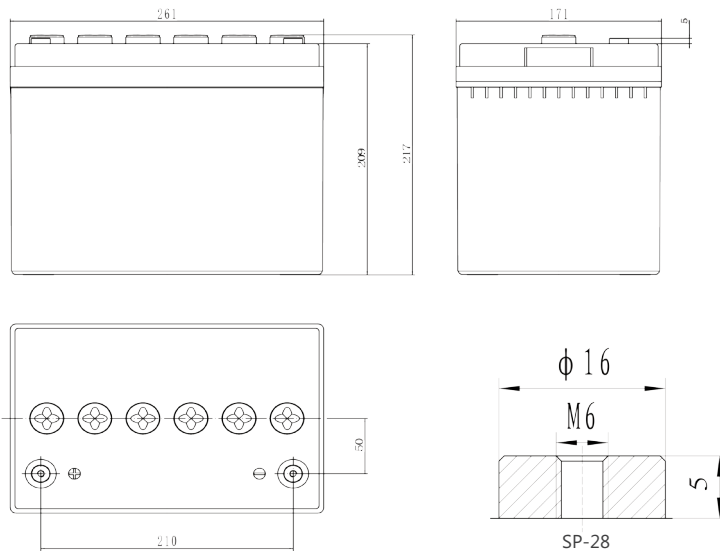
- UPS units
- Data center
- Starting generators
- EPS units

### Standards

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

### Specifications

### Drawing



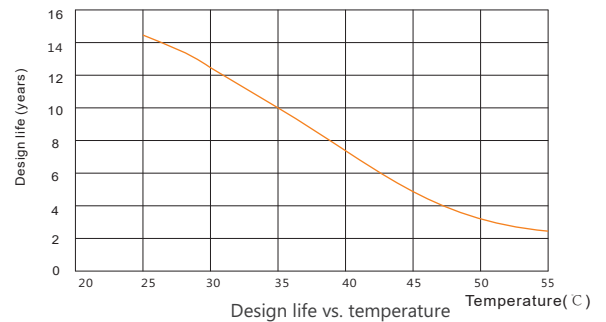
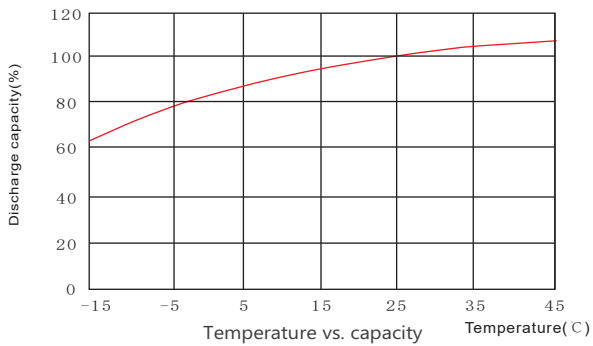
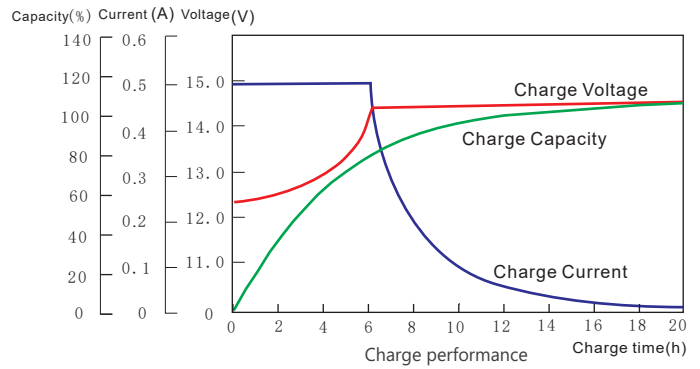
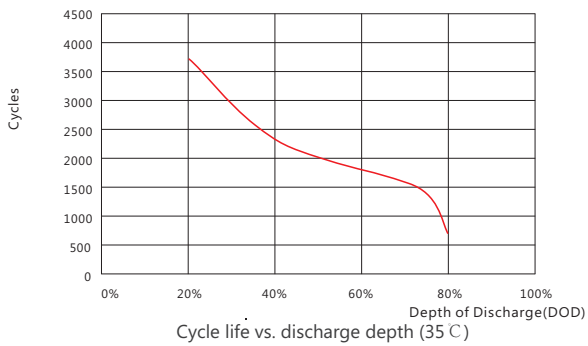
|                                      |   |                |                      |                   |
|--------------------------------------|---|----------------|----------------------|-------------------|
| Battery Model                        | SPG12-320WB                                     |                |                      |                   |
| Design Life (years, 35°C)            | 10  |                |                      |                   |
| Capacity (Ah, 25°C)                  | 10min ( 1.60V)                                  | 15min ( 1.67V) | 1HR (52A, 1.70V)     | 10HR 7.5A, 1.80V) |
|                                      | 412W/cell                                       | 320W/cell      | 52Ah                 | 75Ah              |
| Dimensions (mm)                      | Length  | Width          | Height               | Total Height      |
|                                      | 261   | 171            | 209                  | 217               |
| Approx. Weight (kg)                  | 25.5  |                |                      |                   |
| Reference Internal Resistance (mΩ)   | 4.45( fully charged @ 25°C)                     |                |                      |                   |
| Maximum Discharge Current (A/5 Sec.) | 900   |                |                      |                   |
| Self-Discharge (25°C)                | ≤ 2% per months                                 |                |                      |                   |
| Charge Voltage (V/cell, 25°C)        | Cycle use                                       |                | Float use            |                   |
|                                      | 2.40(-3.5mV/°C/cell), max charge current: 37.5A |                | 2.27(-3.5mV/°C/cell) |                   |
| Short Circuit Current (A)            | 2650  |                |                      |                   |

## Discharge Data

| Constant Current Discharge Data (25°C, A) |     |     |     |     |      |      |      |      |      |      |      |      |      |      |
|---|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| End Voltage (V/cell)                      | min |     |     |     |      |      |      | h    |      |      |      |      |      |      |
|   | 5   | 10  | 15  | 20  | 25   | 30   | 45   | 1    | 1.5  | 2    | 3    | 5    | 6    | 10   |
| 1.60                                      | 285 | 214 | 171 | 143 | 122  | 104  | 72.1 | 57.6 | 39.3 | 31.1 | 22.3 | 14.5 | 12.4 | 8.54 |
| 1.65                                      | 263 | 203 | 165 | 136 | 117  | 100  | 70.3 | 55.8 | 38.1 | 30.2 | 21.6 | 14.0 | 12.1 | 8.30 |
| 1.67                                      | 252 | 195 | 158 | 131 | 113  | 96.0 | 67.8 | 54.1 | 37.5 | 29.7 | 21.3 | 13.8 | 11.9 | 8.23 |
| 1.70                                      | 236 | 184 | 148 | 124 | 107  | 92.3 | 65.5 | 52.0 | 36.8 | 29.2 | 20.9 | 13.6 | 11.7 | 8.07 |
| 1.75                                      | 225 | 173 | 137 | 115 | 99.0 | 86.3 | 61.9 | 50.1 | 35.7 | 28.4 | 20.3 | 13.3 | 11.5 | 7.92 |
| 1.80                                      | 216 | 159 | 126 | 109 | 94.0 | 81.8 | 57.3 | 47.6 | 34.4 | 27.4 | 19.7 | 13.0 | 11.3 | 7.50 |

| Constant Power Discharge Data (25°C, W/cell) |     |     |     |     |     |     |     |     |      |      |      |      |      |      |
|--|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| End Voltage (V/cell)                         | min |     |     |     |     |     |     | h   |      |      |      |      |      |      |
|  | 5   | 10  | 15  | 20  | 25  | 30  | 45  | 1   | 1.5  | 2    | 3    | 5    | 6    | 10   |
| 1.60   | 533 | 412 | 335 | 288 | 238 | 217 | 155 | 122 | 93.2 | 71.1 | 53.1 | 33.6 | 28.6 | 18.9 |
| 1.65   | 519 | 400 | 325 | 279 | 231 | 210 | 151 | 118 | 90.7 | 69.0 | 51.7 | 32.7 | 28.1 | 18.7 |
| 1.67   | 496 | 392 | 320 | 274 | 226 | 204 | 148 | 116 | 88.4 | 67.3 | 50.7 | 31.9 | 27.7 | 18.5 |
| 1.70   | 475 | 383 | 314 | 267 | 221 | 198 | 146 | 114 | 86.8 | 66.1 | 50.0 | 31.4 | 27.3 | 18.3 |
| 1.75   | 460 | 373 | 302 | 257 | 214 | 191 | 142 | 110 | 84.7 | 64.8 | 48.5 | 30.7 | 26.8 | 18.0 |
| 1.80   | 444 | 358 | 290 | 249 | 206 | 183 | 136 | 106 | 81.7 | 62.6 | 46.9 | 29.9 | 26.1 | 17.7 |

## 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 SARL

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

