

SPG Series

SPG12-255W 12V70Ah

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
- Horizontal or vertical installation

Applications

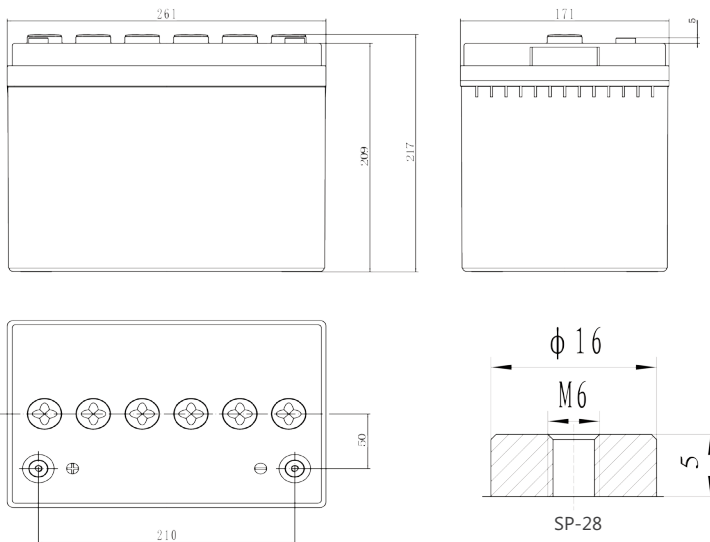
- UPS units
- Data center
- Starting generators
- EPS units

Standards

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

Specifications

Drawing



| | | | | |
|--------------------------------------|--|-----------------------------|--------------------------|----------------------------|
| Battery Model | SPG12-255W | | | |
| Design Life (years, 25°C) | 12 | | | |
| Capacity (Ah, 25°C) | 10min (1.60V) 295W/cell | 15min (1.67V) 255W/cell | 1HR (42A, 1.75V) 42Ah | 10HR (7.0A, 1.80V) 70Ah |
| Dimensions (mm) | Length | Width | Height | Total Height |
| | 261 | 171 | 209 | 217 |
| Approx. Weight (kg) | 22.5 | | | |
| Reference Internal Resistance (mΩ) | 5.80 (fully charged @ 25°C) | | | |
| Maximum Discharge Current (A/5 Sec.) | 840 | | | |
| Self-Discharge (25°C) | ≤ 2% per months | | | |
| Charge Voltage (V/cell, 25°C) | Equalizing voltage | | Float voltage | |
| | 2.40(-3.5mV/°C/cell), max charge current:21A | | 2.27(-3.5mV/°C/cell) | |
| Short Circuit Current (A) | 2050 | | | |

Discharge Data

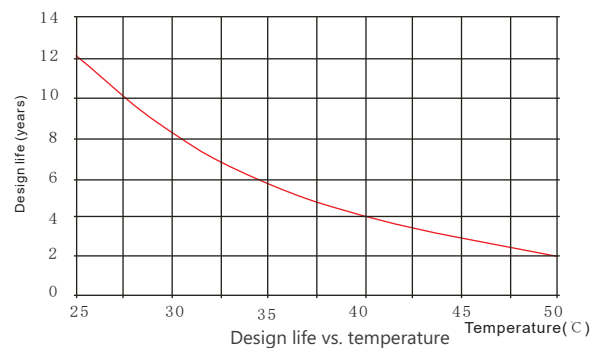
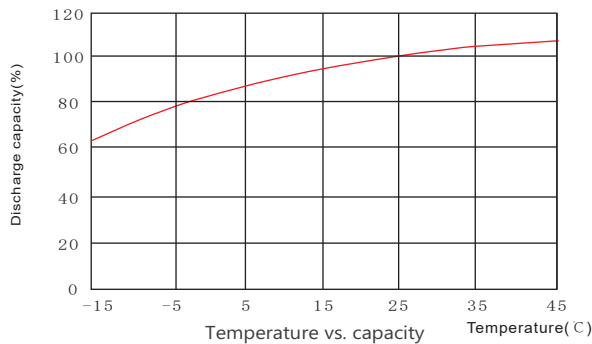
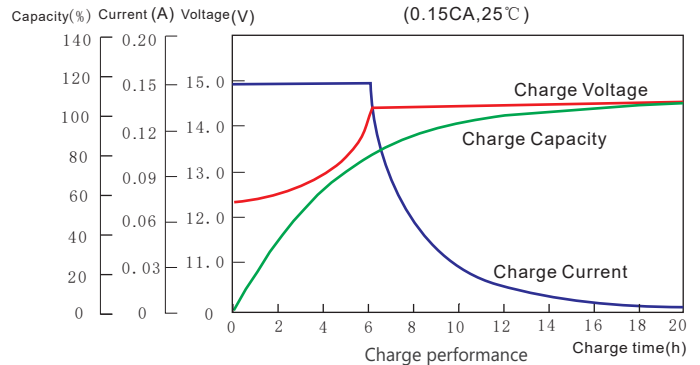
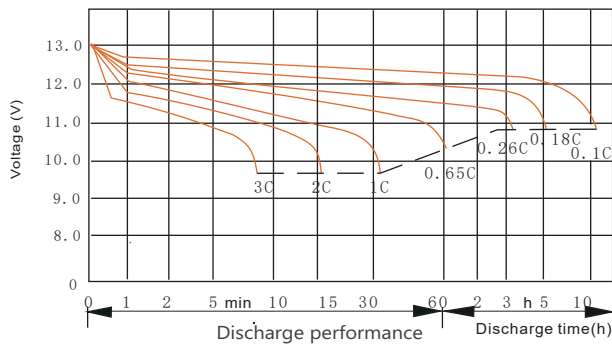
Constant Current Discharge Data (25°C, A)

| End Voltage (V/cell) | min | | | | | | h | | | | | | | |
|----------------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
| | 10 | 15 | 20 | 25 | 30 | 45 | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 10 |
| 1.60 | 163 | 145 | 133 | 113 | 86.8 | 67.3 | 49.0 | 36.7 | 29.0 | 20.8 | 16.0 | 13.5 | 11.5 | 7.60 |
| 1.65 | 155 | 140 | 127 | 108 | 84.0 | 65.6 | 47.0 | 35.6 | 28.2 | 20.2 | 15.6 | 13.0 | 11.3 | 7.50 |
| 1.67 | 152 | 137 | 122 | 104 | 83.3 | 63.3 | 45.8 | 35.0 | 27.8 | 19.8 | 15.4 | 12.8 | 11.2 | 7.42 |
| 1.70 | 148 | 128 | 116 | 100 | 80.0 | 61.0 | 43.8 | 34.3 | 27.3 | 19.5 | 15.2 | 12.7 | 11.0 | 7.28 |
| 1.75 | 138 | 118 | 107 | 92.4 | 74.8 | 57.7 | 42.0 | 33.3 | 26.5 | 19.0 | 14.8 | 12.4 | 10.7 | 7.14 |
| 1.80 | 128 | 110 | 100 | 87.4 | 71.0 | 53.4 | 39.8 | 32.0 | 25.6 | 18.4 | 14.5 | 12.0 | 10.5 | 7.00 |

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 | 295 | 260 | 220 | 183 | 162 | 124 | 97.8 | 74.6 | 56.8 | 42.5 | 33.0 | 26.8 | 22.8 | 15.0 |
| 1.65 | 280 | 257 | 215 | 178 | 156 | 120 | 94.3 | 72.5 | 55.2 | 41.4 | 32.4 | 26.0 | 22.5 | 14.8 |
| 1.67 | 277 | 255 | 210 | 175 | 152 | 118 | 92.8 | 70.7 | 53.8 | 40.6 | 31.6 | 25.5 | 22.2 | 14.7 |
| 1.70 | 268 | 252 | 205 | 170 | 148 | 117 | 90.8 | 69.4 | 52.8 | 40.0 | 31.0 | 25.0 | 21.8 | 14.6 |
| 1.75 | 258 | 242 | 197 | 164 | 143 | 113 | 88.0 | 67.8 | 51.8 | 38.8 | 30.0 | 24.6 | 21.4 | 14.4 |
| 1.80 | 245 | 232 | 190 | 158 | 137 | 108 | 84.6 | 65.3 | 50.0 | 37.6 | 29.2 | 23.8 | 20.8 | 14.0 |

Performance Curve



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