

SAJ Series

SAJ12-150 12V150Ah

SAJ series battery uses AGM and gel mixed technology. It has good cycle life and large current discharge performance. It is a cost effective product and can be widely used in different photovoltaic, lighting, power supply and control systems..



Benefits

- General Purpose according to EUROBAT Classification
- Special AGM separator, adding gel electrolyte, shallow cycle life is long
- Maximum charge efficiency
- High gas recombination efficiency
- Low self-discharge rate
- Horizontal or Vertical installization
- Easy installation and handling

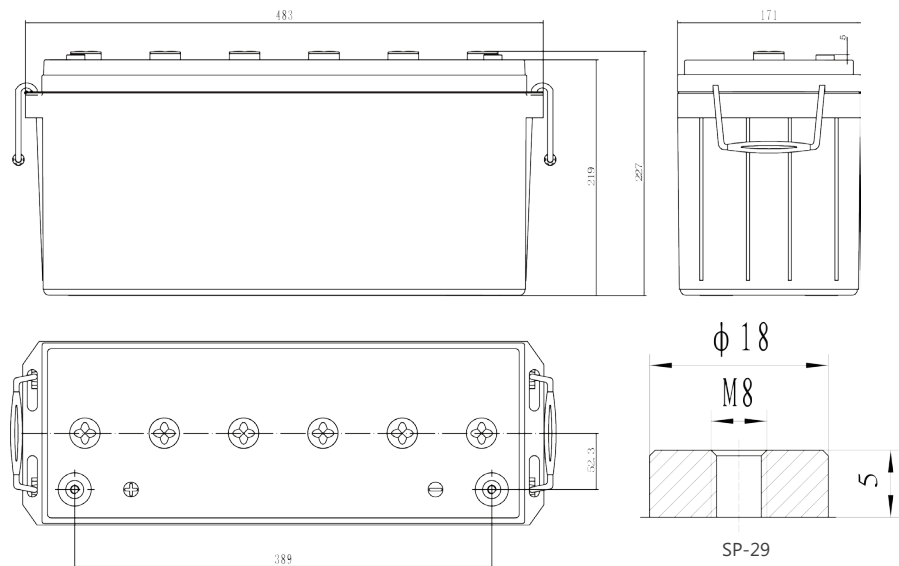
Applications

- Solar (Wind) energy system
- Solar communication/station
- Mobile storage system

Standards

- IEC 60896-21/22
- DIN 43539-T5
- EUROBAT guide

Drawing



Specifications

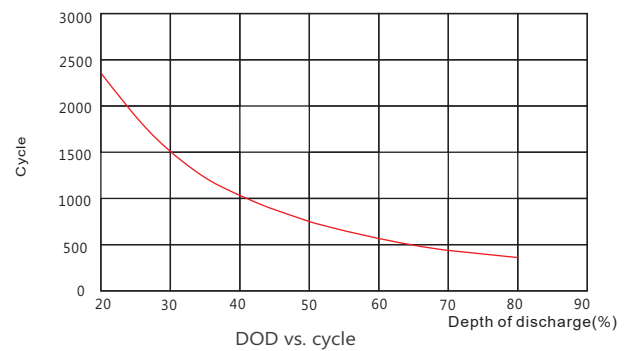
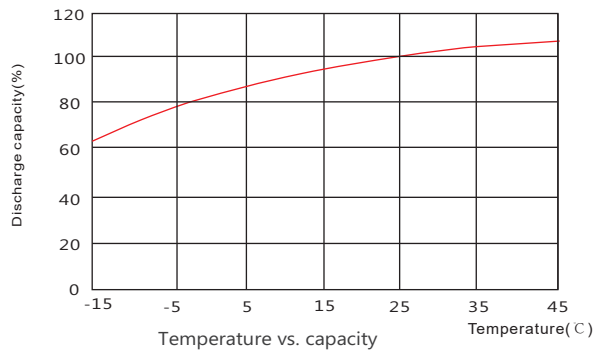
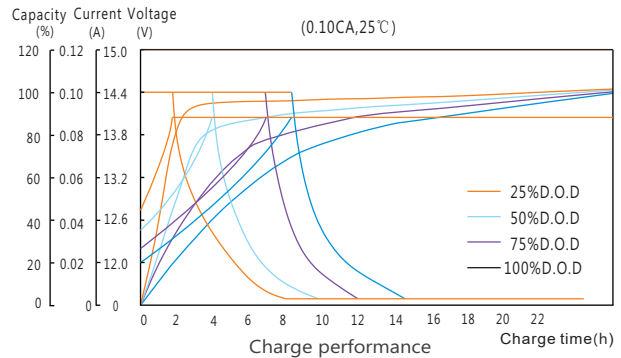
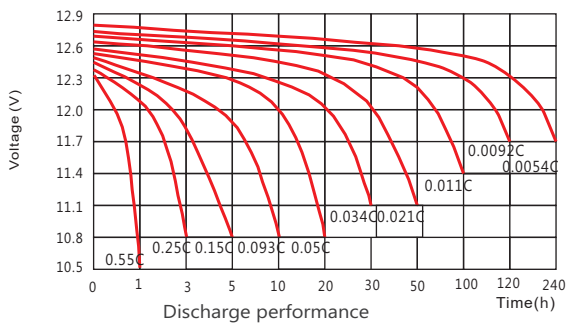
| | | | | |
|--------------------------------------|---|--------------------|----------------------|--------------------|
| Battery Model | SAJ12-150 | | | |
| Design Life (years, 25°C) | 10 | | | |
| Capacity (Ah, 25°C) | 10HR (15A, 1.80V) | 5HR (24.9A, 1.80V) | 3HR (36.75A, 1.80V) | 1HR (81.3A, 1.75V) |
| | 150 | 124.5 | 110.25 | 81.3 |
| Dimensions (mm) | Length | Width | Height | Total Height |
| | 483 | 171 | 219 | 227 |
| Approx. Weight (kg) | 41.5 | | | |
| Reference Internal Resistance (mΩ) | 3.6 (fully charged @ 25°C) | | | |
| Maximum Discharge Current (A/5 Sec.) | 1200 | | | |
| Self-Discharge (25°C) | ≤ 1.5% per months | | | |
| 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) | 3300 | | | |

Discharge Data

| Constant Current Discharge Data (25°C, A) | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| End Voltage (V/cell) | h | | | | | | | | |
| | 1 | 3 | 5 | 10 | 20 | 50 | 100 | 120 | 240 |
| 1.70 | 83.55 | 38.70 | 26.18 | 15.35 | 7.850 | 3.330 | 1.740 | 1.470 | 0.780 |
| 1.75 | 81.30 | 37.95 | 25.65 | 15.20 | 7.725 | 3.270 | 1.710 | 1.449 | 0.765 |
| 1.80 | 78.75 | 36.75 | 24.90 | 15.00 | 7.600 | 3.195 | 1.680 | 1.425 | 0.750 |
| 1.85 | 75.75 | 35.40 | 24.00 | 14.70 | 7.450 | 3.105 | 1.635 | 1.389 | 0.735 |
| 1.90 | 72.00 | 33.75 | 22.95 | 14.30 | 7.250 | 3.000 | 1.590 | 1.350 | 0.720 |

| Constant Power Discharge Data (25°C, W/cell) | | | | | | | | | |
|--|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| End Voltage (V/cell) | h | | | | | | | | |
| | 1 | 3 | 5 | 10 | 20 | 50 | 100 | 120 | 240 |
| 1.70 | 150.5 | 63.20 | 45.50 | 28.30 | 14.70 | 7.130 | 3.850 | 3.270 | 1.650 |
| 1.75 | 145.50 | 62.10 | 44.40 | 28.00 | 14.45 | 7.050 | 3.670 | 3.210 | 1.620 |
| 1.80 | 141.50 | 61.10 | 43.20 | 27.70 | 14.20 | 6.750 | 3.420 | 3.090 | 1.590 |
| 1.85 | 137.00 | 60.30 | 42.20 | 27.10 | 13.90 | 6.390 | 3.250 | 2.890 | 1.530 |
| 1.90 | 133.20 | 59.40 | 41.00 | 26.70 | 13.70 | 6.150 | 3.110 | 2.790 | 1.500 |

Performance Curve



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