

SAJ Series

SAJ12-38 12V38Ah

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 installation
- Easy installation and handling

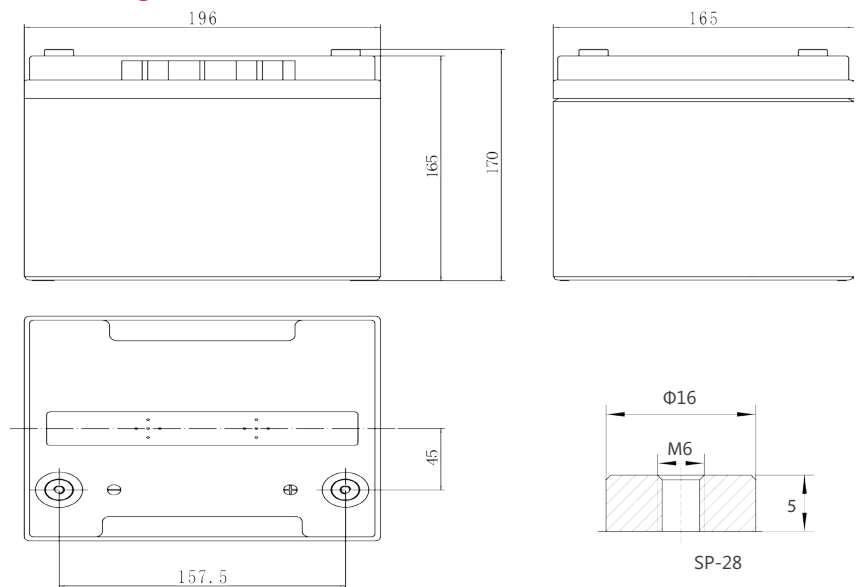
Applications

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

Standards

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

Drawing



Specifications

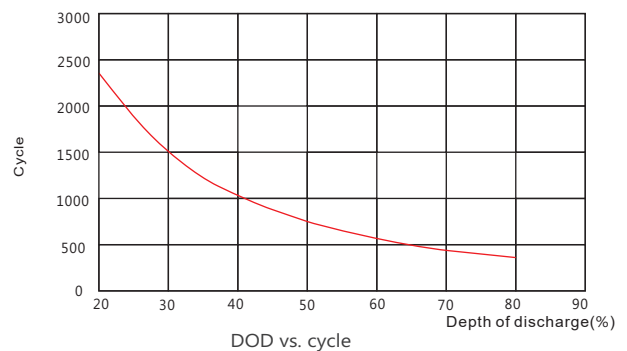
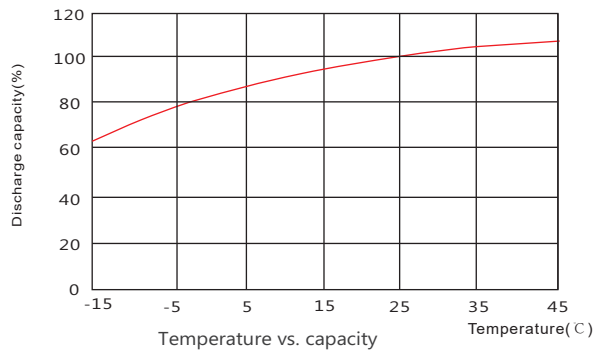
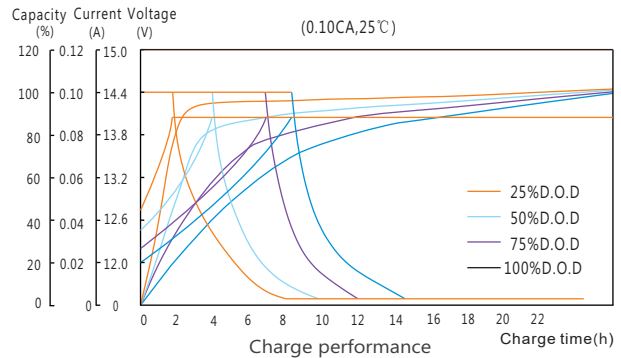
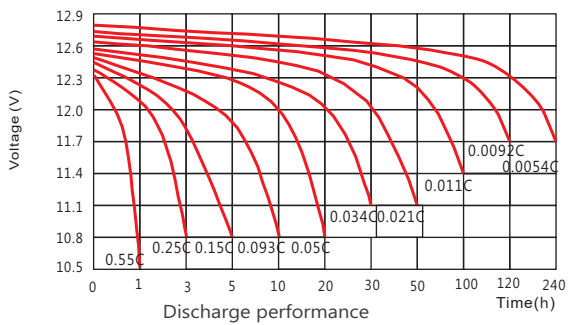
Battery Model	SAJ12-38			
Design Life (years, 25°C)	10			
Capacity (Ah, 25°C)	10HR (3.8A, 1.80V)	5HR (6.403A, 1.80V)	3HR (9.31A, 1.80V)	1HR (20.60A, 1.75V)
	38	32.01	27.93	20.60
Dimensions (mm)	Length	Width	Height	Total Height
	196	165	165	170
Approx. Weight (kg)	12.2			
Reference Internal Resistance (mΩ)	9.1±15% (full charged @ 25°C, testing device:HIOKI BT3562)			
Maximum Discharge Current (A/5 Sec.)	456			
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: 7.6A		2.27(-3.5mV/°C/cell)	
Short Circuit Current (A)	1300			

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	21.17	9.804	6.726	3.900	2.010	0.844	0.441	0.372	0.198
1.75	20.60	9.614	6.593	3.855	1.970	0.828	0.433	0.367	0.194
1.80	19.95	9.310	6.403	3.800	1.930	0.809	0.426	0.361	0.190
1.85	19.19	8.968	6.175	3.700	1.870	0.787	0.414	0.352	0.186
1.90	18.24	8.550	5.909	3.570	1.805	0.760	0.403	0.342	0.182

Constant Power Discharge Data (25°C, W/cell)									
End Voltage (V/cell)	h								
	1	3	5	10	20	50	100	120	240
1.70	37.68	17.86	11.87	7.200	3.780	1.930	1.140	0.970	0.490
1.75	36.56	17.42	11.57	7.120	3.700	1.900	1.130	0.960	0.480
1.80	35.45	17.13	11.29	7.070	3.660	1.870	1.120	0.940	0.480
1.85	34.39	16.98	11.00	6.820	3.550	1.850	1.120	0.940	0.470
1.90	33.33	16.59	10.73	6.610	3.470	1.820	1.100	0.930	0.470

Performance Curve



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