

SAJ Series

SAJ12-50 12V50Ah



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

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

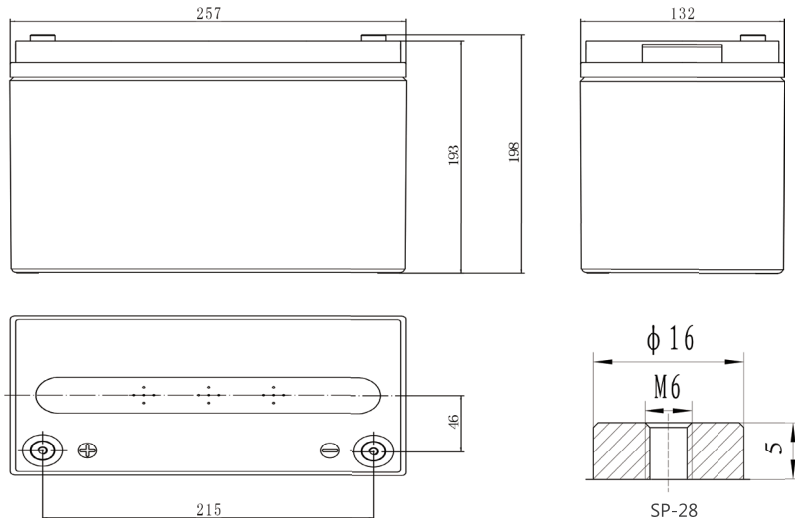
Applications

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

Standards

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

Drawing



Specifications

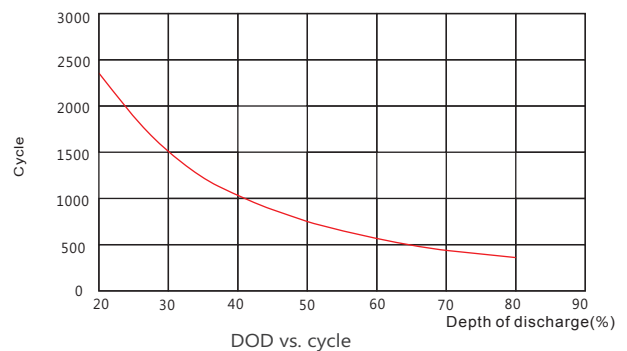
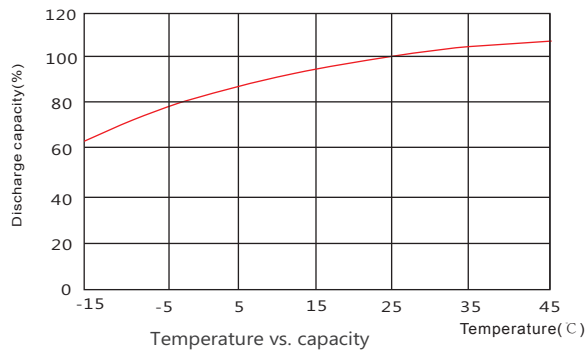
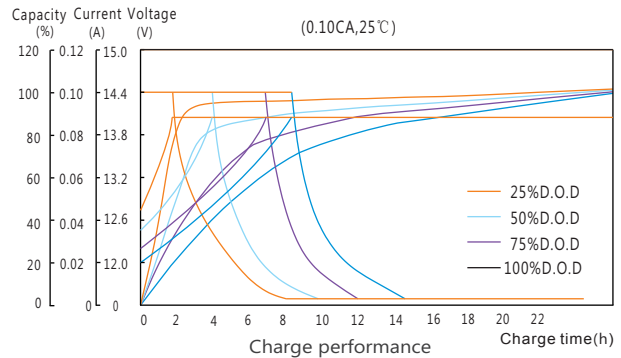
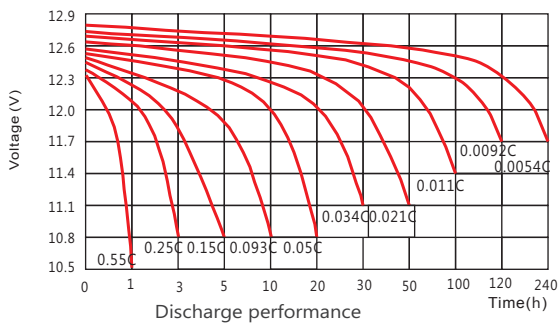
Battery Model	SAJ12-50			
Design Life (years, 25°C)	10			
Capacity (Ah, 25°C)	20HR (2.5A, 1.80V)	10HR (4.65A, 1.80V)	5HR (8.425A, 1.80V)	1HR (26.25A, 1.75V)
	50	46.5	42.125	26.25
Dimensions (mm)	Length	Width	Height	Total Height
	257	132	193	198
Approx. Weight (kg)	16.1			
Reference Internal Resistance (mΩ)	8.1 (fully charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	600			
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: 10A		2.27(-3.5mV/°C/cell)	
Short Circuit Current (A)	1480			

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	27.85	12.90	8.850	4.875	2.640	1.110	0.580	0.490	0.260
1.75	27.10	12.65	8.675	4.775	2.575	1.090	0.570	0.483	0.255
1.80	26.25	12.25	8.425	4.650	2.500	1.065	0.560	0.475	0.250
1.85	25.25	11.80	8.125	4.525	2.450	1.035	0.545	0.463	0.245
1.90	24.00	11.25	7.775	4.350	2.375	1.000	0.530	0.450	0.240

Constant Power Discharge Data (25°C, W/cell)									
End Voltage (V/cell)	h								
	1	3	5	10	20	50	100	120	240
1.70	49.58	22.30	15.62	9.000	4.970	2.440	1.250	1.070	0.560
1.75	48.10	21.90	15.23	8.820	4.840	2.400	1.220	1.040	0.530
1.80	46.65	21.46	14.85	8.650	4.750	2.360	1.200	1.020	0.520
1.85	45.25	21.02	14.48	8.470	4.650	2.330	1.180	1.000	0.510
1.90	43.85	20.67	14.12	8.300	4.560	2.290	1.160	0.980	0.500

Performance Curve



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