

# 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 installation
- Easy installation and handling

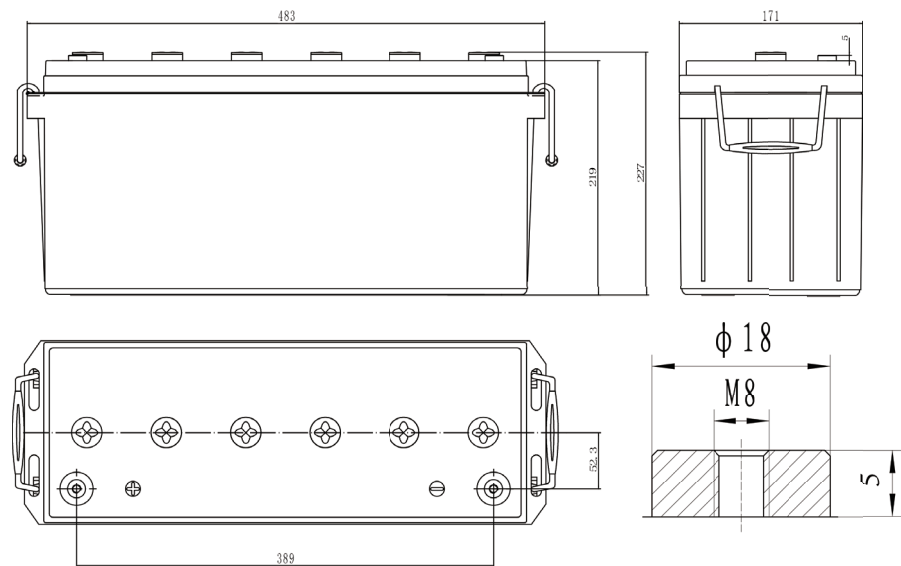
### Applications

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

### Standards

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

### Drawing



### Specifications

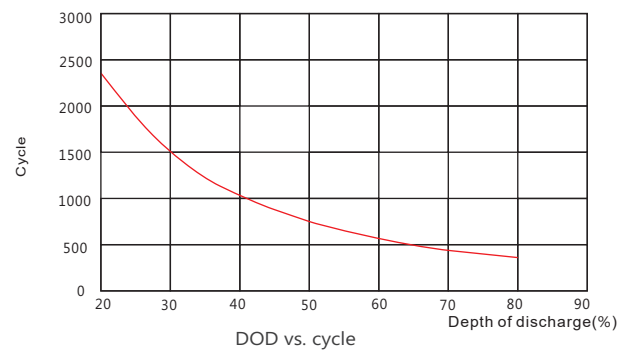
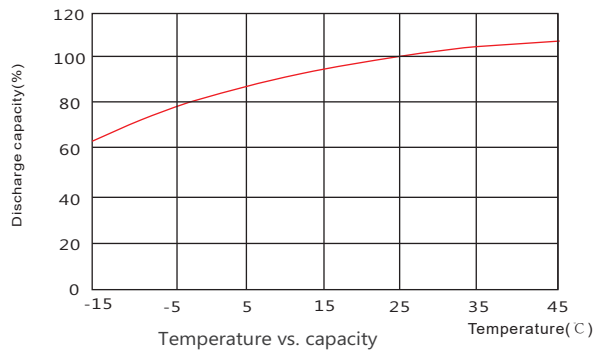
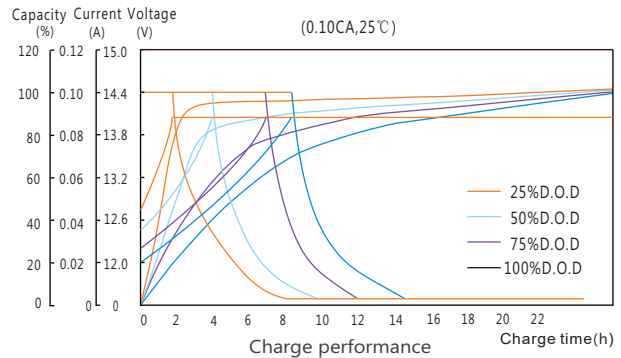
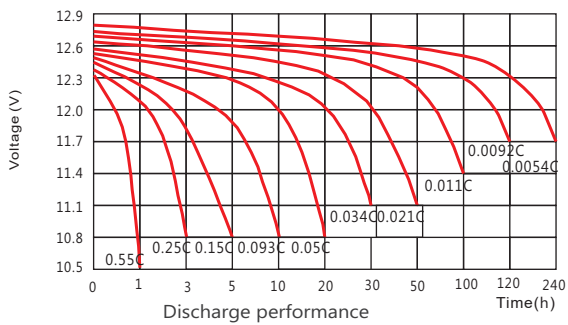
Battery Model	SAJ12-150			
Design Life (years, 25°C)	10			
Capacity (Ah, 25°C)	10HR (15A, 1.80V)	5HR (24.9A, 1.80V)	3HR (36.75A, 1.80V)	1HR (81.3A, 1.75V)
	150	124.5	110.25	81.3
Dimensions (mm)	Length	Width	Height	Total Height
	483	171	219	227
Approx. Weight (kg)	41.5			
Reference Internal Resistance (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



### Sacred Sun Power Sources Co., Ltd.

No.1 Shengyang Road Qufu City, PRC  
sales@sacredsun.cn

### Sacred Sun Asia Pacific

No. 15, Yishun Industrial Street 1,  
#01-17, WIN5, Singapore 768091  
sales.asia@sacredsun.cn

### Sacred Sun Europe SPRL

Paul Dejaerlaan 4b, B 1060 Brussel,  
Belgium  
sales.eu@sacredsun.cn

### Sacred Sun MEA FZE

Jebel Ali, Dubai, UAE  
sales.mea@sacredsun.cn

