



VRLA BATTERY FOR ENERGY STORAGE

RZE6-200SG1

SG1 series battery uses AGM and Gel mixed technology. Its Deep Cycle, 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.

Main Applications

- ▶ Solar Energy Systems
- ▶ Telecom & Medical Equipments
- ▶ Mobile storage Systems
- ▶ UPS Systems/ EPS Units

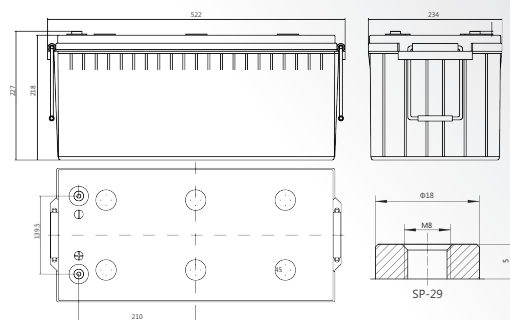
Benefits

- ▶ 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

Standards

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

Drawing



Technical Parameters

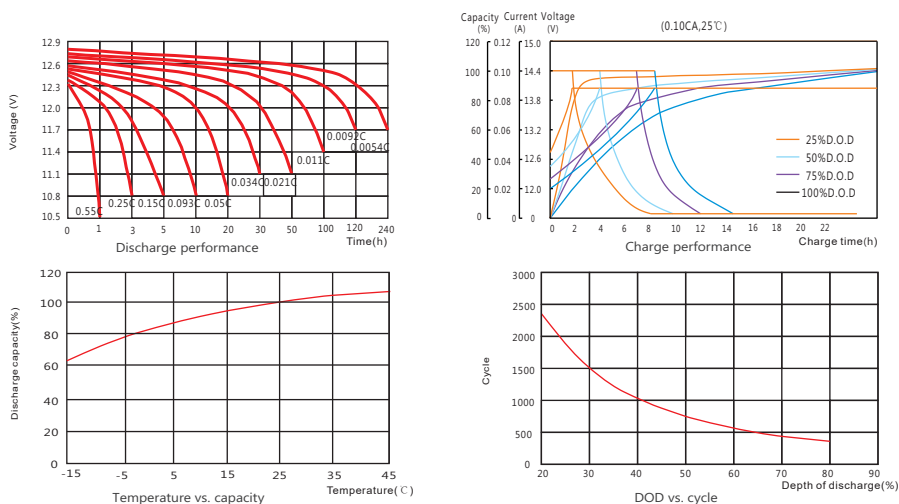
Battery Model		SAJ12-200			
Design Life (years, 25°C)	10				
Capacity (Ah, 25°C)	10HR (20.0A, 1.80V)	5HR (33.7A, 1.80V)	3HR (49A, 1.80V)	1HR (108.4A, 1.75V)	
	200	168.5	147	108.4	
Dimensions (mm)	Length	Width	Height	Total Height	
	522	234	218	227	
Approx. Weight (kg)	57.8				
Reference Internal Resistance (mΩ)	3.1±15% (full charged @ 25 °C,testing device:HIOKI BT3562)				
Maximum Discharge Current (A/5 Sec.)	1400				
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: 40A			2.27(-3.5mV/°C/cell)	
Short Circuit Current (A)	3850				

Discharge Data

Constant Current Discharge Data (25°C,									
End Voltage (V/cell)	h								
	1	3	5	10	20	50	100	120	240
1.70	111.40	51.60	35.40	20.25	10.60	4.440	2.320	1.960	1.040
1.75	108.40	50.60	34.70	20.15	10.40	4.360	2.280	1.932	1.020
1.80	105.00	49.00	33.70	20.00	10.20	4.260	2.240	1.900	1.000
1.85	101.00	47.20	32.50	19.60	9.900	4.140	2.180	1.852	0.980
1.90	96.00	45.00	31.10	19.00	9.650	4.000	2.120	1.800	0.960

Constant Power Discharge Data (25°C,									
End Voltage (V/cell)	h								
	1	3	5	10	20	50	100	120	240
1.70	201.0	86.80	60.50	37.50	19.60	9.800	5.020	4.200	2.150
1.75	194.50	83.20	59.00	37.20	19.40	9.750	4.930	4.150	2.100
1.80	189.00	81.60	57.50	36.80	19.20	9.600	4.860	4.100	2.060
1.85	183.00	78.90	56.00	36.20	18.80	9.500	4.810	4.050	2.040
1.90	177.50	76.45	54.50	35.50	18.50	9.300	4.730	4.020	2.020

Performance Curve



⚠ Declaration: This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specifications are subject to modification without notice. Contact Rizon Technologies for the latest information

■ Products specifications described herein are subject to change without prior notification.