



VRLA BATTERY FOR ENERGY STORAGE

RZE6-42SG1

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.

Applications

- ▶ Solar energy system
- ▶ Solar communication/Station
- ▶ Mobile storage Systems
- ▶ UPS Systems/ EPS Units

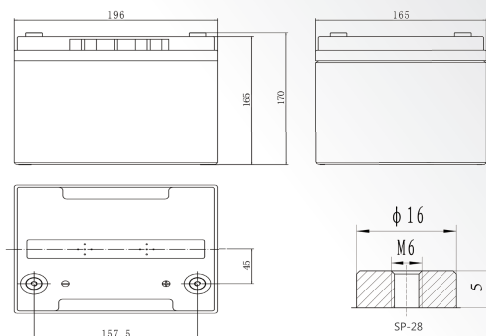
Benefits

- ▶ 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



Specifications

Battery Model		SAJ12-42			
Design Life (years, 25°C)	10				
Capacity (Ah, 25°C)	20HR (2.1A, 1.80V)	10HR (3.906A, 1.80V)	5HR (7.077A, 1.80V)	1HR (122.05A, 1.75V)	
	42	39.06	35.385	22.05	
Dimensions (mm)	Length	Width	Height	Total Height	
	196	165	165	170	
Approx. Weight (kg)	12.9				
Reference Internal Resistance (m [~])	8.6 (fully charged @ 25°C)				
Maximum Discharge Current (A/5 Sec.)	504				
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: 8.4A			2.27(-3.5mV/°C/cell)	
Short Circuit Current (A)	1400				

Discharge Data

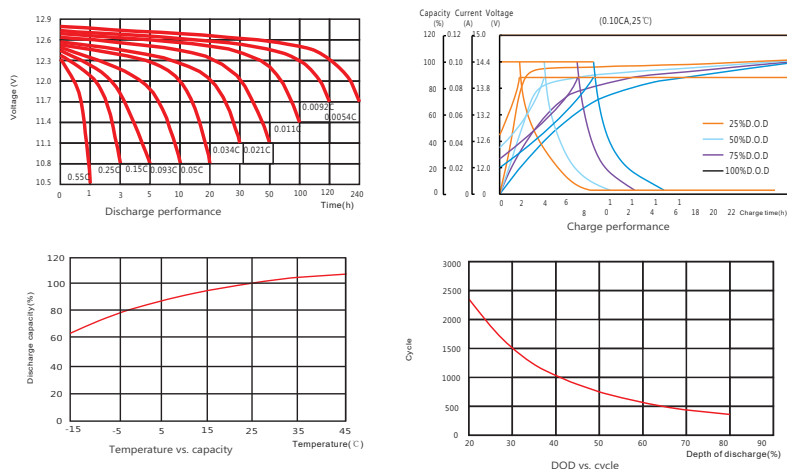
Constant Current Discharge Data (25°C,

End Voltage (V/cell)	h								
	1	3	5	10	20	50	100	120	240
1.70	23.39	10.84	7.434	4.095	2.218	0.932	0.487	0.412	0.218
1.75	22.76	10.63	7.287	4.011	2.163	0.916	0.479	0.406	0.214
1.80	22.05	10.29	7.077	3.906	2.100	0.895	0.470	0.399	0.210
1.85	21.21	9.912	6.825	3.801	2.058	0.869	0.458	0.389	0.206
1.90	20.16	9.450	6.531	3.654	1.995	0.840	0.445	0.378	0.202

Constant Power Discharge Data (25°C,

End Voltage (V/cell)	h								
	1	3	5	10	20	50	100	120	240
1.70	41.65	19.32	12.98	8.328	4.303	1.749	0.932	0.814	0.439
1.75	40.41	19.07	12.87	8.282	4.295	1.746	0.929	0.813	0.439
1.80	39.18	18.65	12.73	8.19	4.252	1.733	0.929	0.812	0.438
1.85	38.01	18.06	12.30	7.887	4.123	1.691	0.906	0.791	0.428
1.90	36.84	17.05	11.50	7.354	3.840	1.575	0.855	0.750	0.403

Performance Curve



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