



VRLA BATTERY FOR ENERGY STORAGE

RZE6-100SG1

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

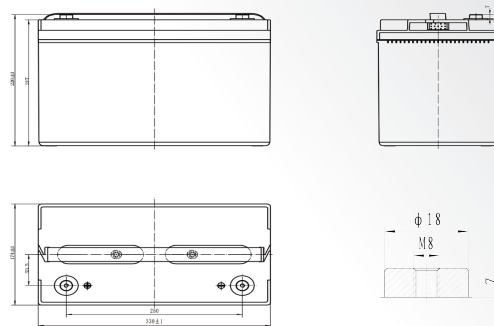
Benefits

- ▶ 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

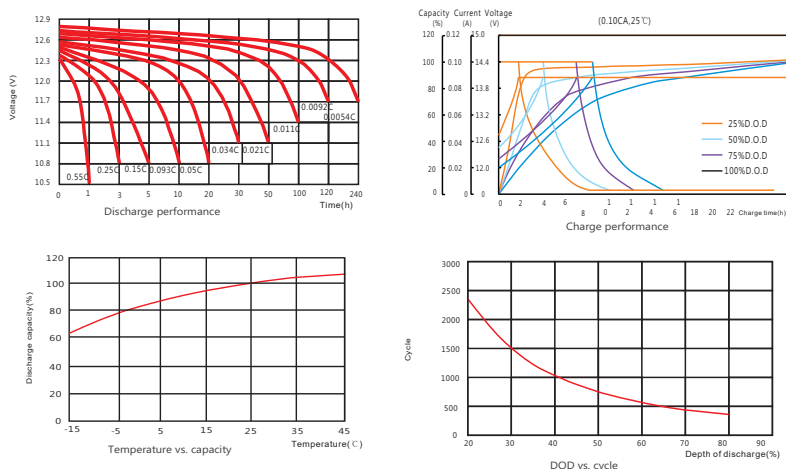
Battery Model		RZE6-100SG1			
Design Life (years, 25°C)	10				
Capacity (Ah, 25°C)	10HR (5.0A, 1.80V)	50HR (16.85A, 1.80V)	3HR (24.5A, 1.80V)	1HR (54.20A, 1.75V)	
	100	84.25	73.5	54.2	
Dimensions (mm)	Length	Width	Height	Total Height	
	330	174	217	226	
Approx. Weight (kg)	29.0				
Reference Internal Resistance (mΩ)	5.0 (fully charged @ 25°C)				
Maximum Discharge Current (A/5 Sec.)	1000				
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: 20A			2.27(-3.5mV/°C/cell)	
Short Circuit Current (A)	2400				

Discharge Data

Constant Current Discharge Data (25°C,									
End Voltage (V/cell)	min				hour				
	10	20	30	45	1	3	5	10	20
1.70	143	102	89.0	64.0	55.70	25.80	17.70	10.25	5.280
1.75	140	100	86.7	62.7	54.20	25.30	17.35	10.15	5.150
1.80	135	96.4	84.0	60.7	52.50	24.50	16.85	10.00	5.100
1.85	130	92.8	80.8	58.0	50.50	23.60	16.25	9.750	4.950
1.90	124	88.2	76.8	55.5	48.00	22.50	15.55	9.450	4.800

Constant Power Discharge Data (25°C,									
End Voltage (V/cell)	min				hour				
	10	20	30	45	1	3	5	10	20
1.70	258	184	160	116	100.0	45.10	32.00	18.10	9.800
1.75	250	178	155	112	97.00	44.88	31.40	17.70	9.600
1.80	242	173	150	108	94.00	44.15	30.50	17.20	9.500
1.85	234	167	146	105	91.00	43.75	29.50	16.50	9.300
1.90	228	163	142	102	88.50	42.97	29.00	16.30	9.100

Performance Curve



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