



VRLA BATTERY FOR ENERGY STORAGE

RZE6-80SG1

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

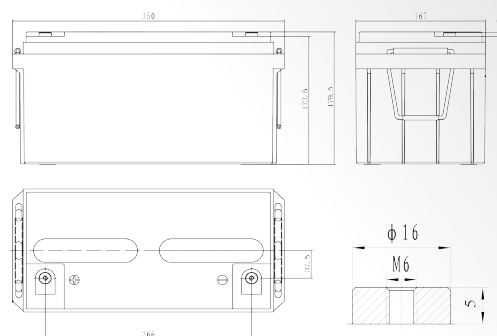
Benefits

- ▶ 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		RZE6-80SG1			
Design Life (years, 25°C)	10				
Capacity (Ah, 25°C)	10HR (4.0A, 1.80V)	5HR (13.28A, 1.80V)	3HR (19.60A, 1.80V)	1HR (43.36A, 1.75V)	
	80	66.4	58.8	42.0	
Dimensions (mm)	Length	Width	Height	Total Height	
	350	167	179.5	179.5	
Approx. Weight (kg)	23.2				
Reference Internal Resistance (m ⁺)	5.1 (fully charged @ 25°C)				
Maximum Discharge Current (A/5 Sec.)	920				
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: 16A			2.27(-3.5mV/°C/cell)	
Short Circuit Current (A)	2850				

Discharge Data

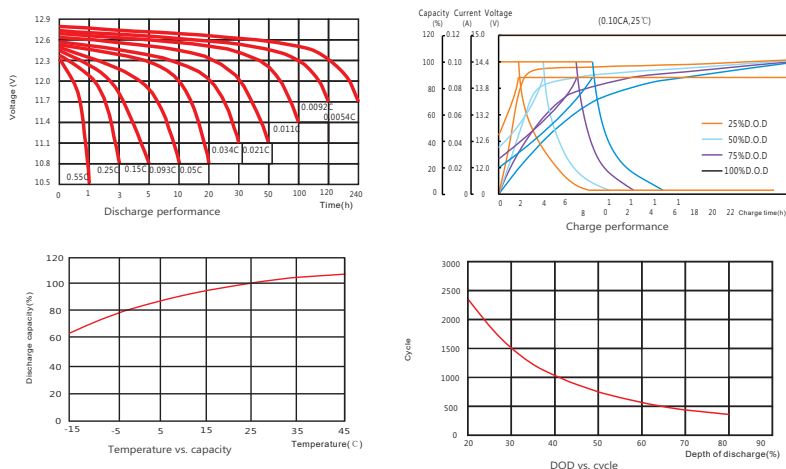
Constant Current Discharge Data (25°C,

End Voltage (V/cell)	min				hour				
	10	20	30	45	1	3	5	10	20
1.70	115	81.8	71.4	51.6	44.56	20.64	13.96	8.120	4.200
1.75	112	79.7	69.4	50.2	43.36	20.24	13.68	8.060	4.150
1.80	108	77.0	67.2	48.6	42.00	19.60	13.28	8.000	4.100
1.85	104	74.2	64.6	46.7	40.40	18.88	12.80	7.870	4.000
1.90	98.9	70.5	61.6	44.4	38.40	18.00	12.24	7.720	3.890

Constant Power Discharge Data (25°C,

End Voltage (V/cell)	min				hour				
	10	20	30	45	1	3	5	10	20
1.70	216	154	134	97.2	84.00	35.21	24.50	14.72	7.750
1.75	210	150	130	94.3	81.50	34.18	24.00	14.56	7.650
1.80	204	145	126	91.4	79.00	33.31	23.50	14.35	7.540
1.85	197	140	122	88.5	76.50	32.59	22.50	14.16	7.400
1.90	190	136	118	85.6	74.00	31.78	22.00	14.05	7.280

Performance Curve



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