



VRLA BATTERY FOR ENERGY STORAGE

RZE6-110S1

RZE6-110S1 VRLA battery uses AGM and GEL hybrid technology, it has good deep cycle and large current discharge performance. As the economy-type solar battery, it can be widely used in renewable energy, electrical vehicle etc.

Main Applications

- ▶ UPS units
- ▶ Emergency power
- ▶ Starting generators
- ▶ EPS units

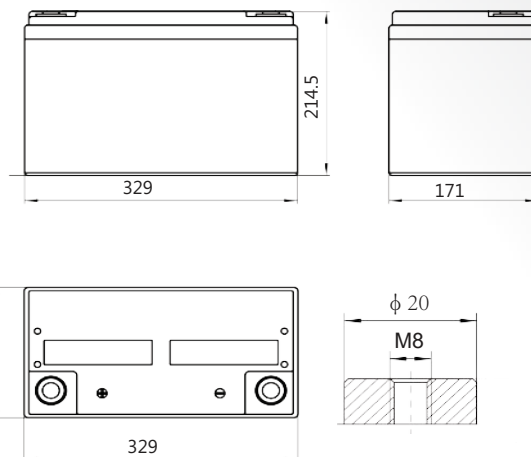
Benefits

- ▶ Deep cycle for solar application
- ▶ Good large current discharge performance
- ▶ High gas recombination efficiency
- ▶ Maximum charge efficiency
- ▶ Low self-discharge rate
- ▶ Easy installation and handling

Standards

- ▶ IEC 60896-21/22 JIS
- ▶ C8704-1/2
- ▶ EUROBAT guide

Dimensions



Technical Parameters

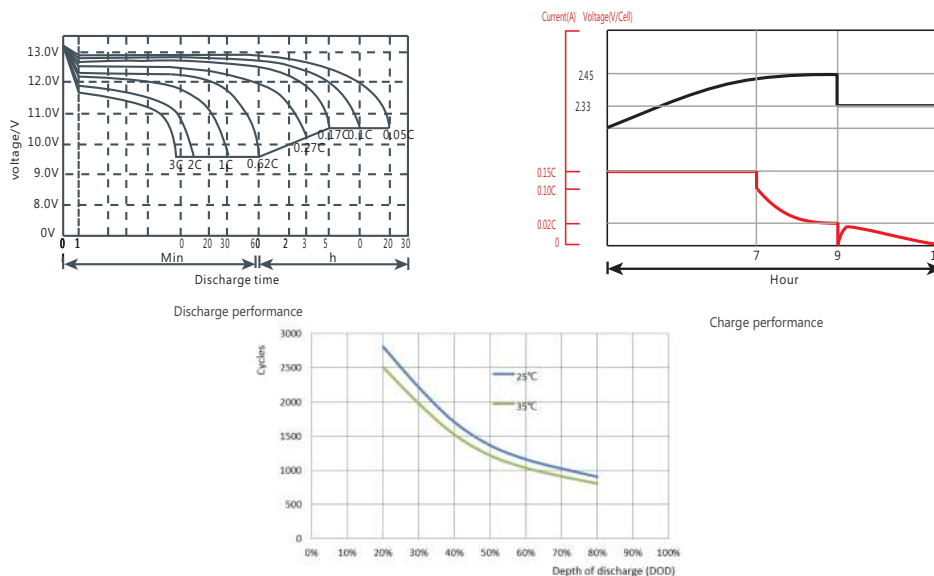
Battery Model		RZE6-110S1			
Design Life (years, 25°C)	10				
Capacity (Ah, 25°C)	20HR (5.7A, 1.75V)	10HR (11.0A, 1.75V)	5HR (21A, 1.75V)	3HR(33.33A, 1.75V)	
	114	110	105	100	
Dimensions (mm)	Length	Width	Height	Total Height	
	329	171	214.5	214.5	
Approx. Weight (kg)	34.5				
Reference Internal Resistance (mΩ)	5.0 (fully charged @ 25°C)				
Maximum Discharge Current (A/10 Sec.)	900				
Self-Discharge (25°C)	≤3 % per month				
Charge Voltage (V/cell, 25°C)	Cycle use			Float use	
	2.45 (-3.0mV/°C/cell), max charge current: 15A			2.35 (-3.0mV/°C/cell)	
Short Circuit Current (A)	1650				

Discharge Data

Constant Current Discharge Data (25°C, A)											
End Voltage (V/cell)	min				h						
	10	20	30	45	1	1.5	2	3	5	10	20
1.60	274.3	160.3	120.5	89.63	75.92	59.76	47.20	33.97	21.30	11.48	5.780
1.65	268.1	157.1	118.6	88.19	74.83	59.15	46.83	33.83	21.20	11.45	5.768
1.70	261.0	153.3	116.0	86.60	74.02	58.61	46.50	33.63	21.10	11.38	5.734
1.75	255.0	150.5	114.0	85.33	73.00	57.93	46.00	33.33	21.00	11.00	5.700

Constant Power Discharge Data (25°C, W/cell)											
End Voltage (V/cell)	min				h						
	10	20	30	45	1	1.5	2	3	5	10	20
1.60	481.8	288.7	221.5	167.3	146.8	117.0	93.45	67.93	44.83	23.04	11.63
1.65	479.6	287.3	220.6	166.4	145.3	116.3	92.88	67.72	44.69	23.01	11.61
1.70	473.5	283.6	218.2	165.1	144.3	115.6	92.37	67.38	44.50	22.89	11.55
1.75	469.0	281.9	216.8	164.3	143.0	114.6	91.54	66.89	44.18	22.77	11.50

Performance Curve



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