



VRLA BATTERY FOR ENERGY STORAGE

RZE6-18S1

RZE6-18S1 VRLA battery uses AGM technology and high-purity raw materials. It is good floating back up and large current discharge performance makes it optimal and economical choice for UPS/EPS.

Main Applications

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

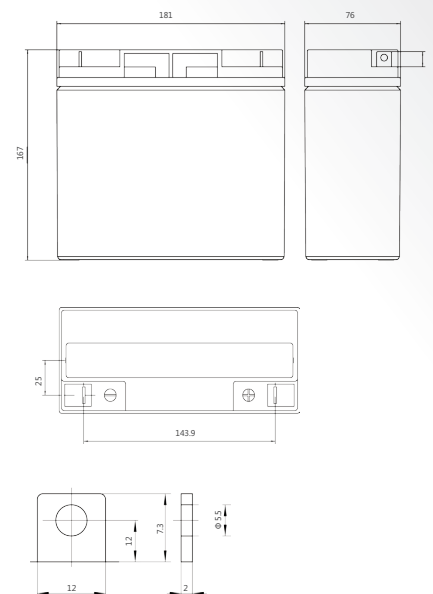
Benefits

- ▶ Standard Commercial according to EUROBAT Classification
- ▶ Maximum charge efficiency
- ▶ High gas recombination efficiency Low self-discharge rate Easy
- ▶ installation and handling Vertical or horizontal installation

Standards

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

Dimensions



Technical Parameters

Battery Model		RZE6-18S1			
Design Life (years, 25°C)	5				
Capacity (Ah, 25°C)	20HR (0.90A, 1.75V)	10HR (1.67A, 1.75V)	5HR (3.204A, 1.75V)	1HR(11.45A, 1.70V)	
	18	16.7	16.02	11.45	
Dimensions (mm)	Length	Width	Height	Total Height	
	181	76	167	167	
Approx. Weight (kg)	5.4				
Reference Internal Resistance (mΩ)	14 (full charged @ 25°C)				
Maximum Discharge Current (A/5 Sec.)	270				
Self-Discharge (25°C)	≤ 3 % per month				
Charge Voltage (V/cell, 25°C)	Cycle use			Float use	
	2.45 (-3.5mV/°C/cell), max charge current: 5.4 A			2.27 (-3.5mV/°C/cell)	
Short Circuit Current (A)	460				

Discharge Data

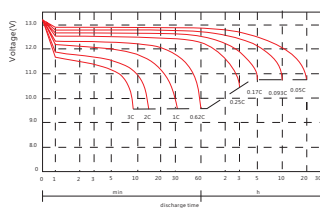
Constant Current Discharge Data (25°C, A)

End Voltage (V/cell)	min					h						
	10	15	20	30	45	1	1.5	2	3	5	10	20
1.60	46.41	34.18	27.33	19.88	14.77	11.73	8.581	6.900	5.096	3.287	1.709	0.918
1.65	44.75	33.28	26.83	19.54	14.63	11.57	8.473	6.820	5.032	3.258	1.694	0.911
1.67	43.45	33.00	26.67	19.43	14.46	11.52	8.424	6.787	5.012	3.249	1.688	0.907
1.70	42.83	32.69	26.45	19.28	14.41	11.45	8.391	6.753	4.987	3.233	1.684	0.905
1.75	38.45	30.96	25.38	18.65	13.92	11.20	8.251	6.660	4.938	3.204	1.670	0.900
1.80	35.18	28.89	24.03	17.90	13.46	10.94	8.110	6.567	4.879	3.169	1.655	0.895

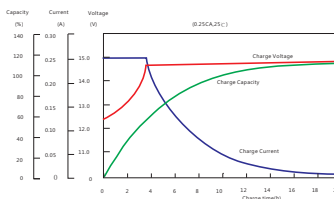
Constant Power Discharge Data (25°C, W/cell)

End Voltage (V/cell)	min					h						
	10	15	20	30	45	1	1.5	2	3	5	10	20
1.60	84.61	64.37	52.36	38.43	28.79	23.00	16.89	13.628	10.102	6.537	3.405	1.830
1.65	82.45	63.05	51.55	37.87	28.59	22.73	16.73	13.500	9.997	6.492	3.383	1.823
1.67	80.47	62.74	51.38	37.73	28.30	22.65	16.66	13.46	9.968	6.481	3.374	1.817
1.70	79.60	62.39	51.04	37.51	28.23	22.55	16.61	13.41	9.930	6.455	3.370	1.816
1.75	72.03	59.37	49.13	36.41	27.38	22.12	16.37	13.25	9.850	6.412	3.349	1.808
1.80	66.55	55.68	46.75	35.06	26.53	21.68	16.12	13.094	9.749	6.353	3.326	1.800

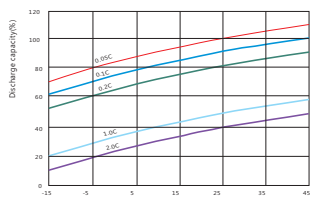
Performance Curve



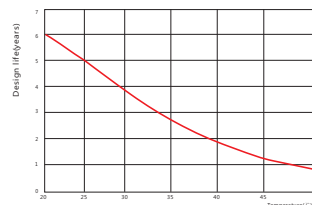
Discharge voltage vs. discharge time



Charge capacity vs. charge time



Discharge capacity vs. temperature



Design life vs. temperature

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