

SP Series

SP12-50 12V50Ah

SP series VRLA battery uses AGM technology and high-purity raw materials. Its good floating back up and large current discharge performance makes it optimal and economical choice for UPS/EPS.

Benefits

- Long life according to EUROBAT Classification
- Maximum charge efficiency
- High gas recombination efficiency
- Low self-discharge rate
- Easy installation and handling
- Vertical installation

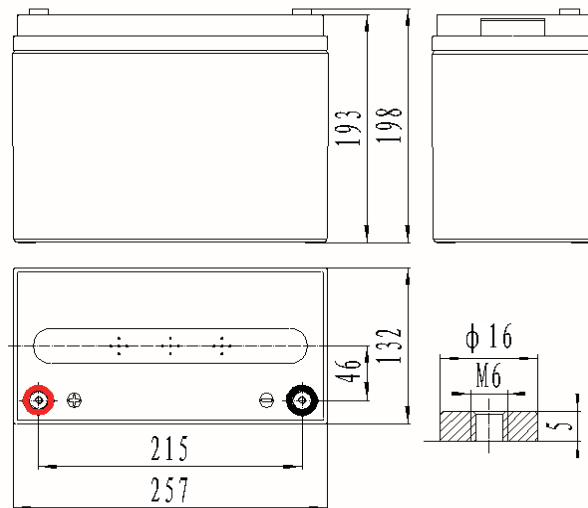
Applications

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

Standards

- IEC 61056-1/2
- JIS C8702-1/2
- EUROBAT guide

Drawing



Specifications

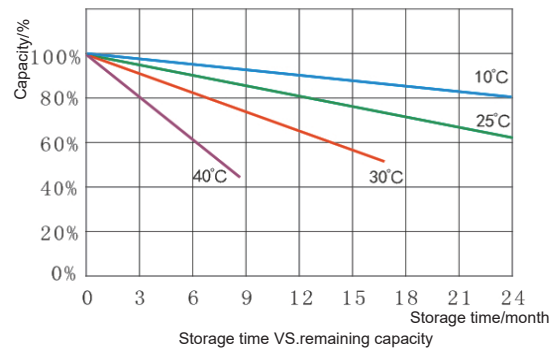
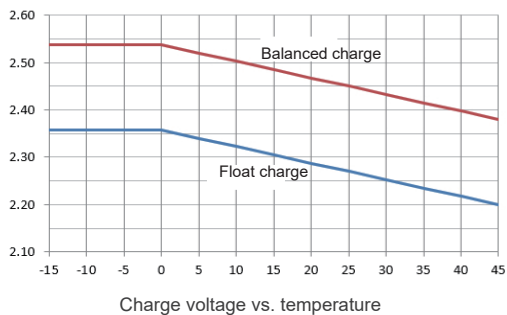
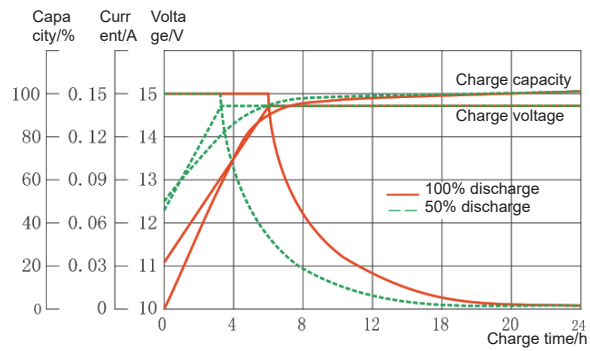
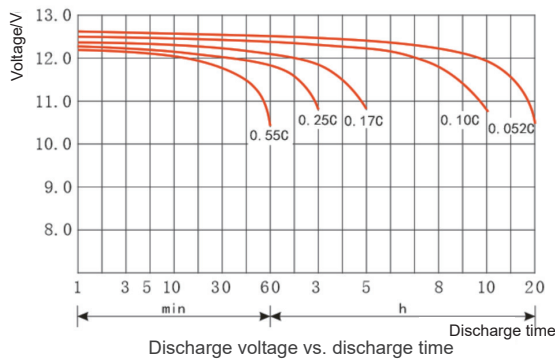
Battery Model	SP12-50			
Design Life (years, 25°C)	10			
Capacity (Ah, 25°C)	20HR (2.52A, 1.80V)	10HR (5.0A, 1.80V)	5HR (8.5A, 1.75V)	1HR(28.4A, 1.70V)
	50.4	50	42.5	28.4
Dimensions (mm)	Length	Width	Height	Total Height
	257	132	193	198
Approx. Weight (kg)	16.0			
Reference Internal Resistance (mΩ)	7.2±15%(full charged @ 25°C,testing device:HIOKIBT3562)			
Maximum Discharge Current (A/3 Sec.)	750			
Self-Discharge (25°C)	≤ 2% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.40 (-3.5mV/°C/cell), max charge current: 12.5 A		2.27 (-3.5mV/°C/cell)	
Short Circuit Current (A)	1600(for reference only)			

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	110	92.5	75.0	56.0	39.0	29.8	22.5	19.0	13.5	8.93	5.33	2.72
1.65	107	88.8	73.0	54.6	38.0	29.0	21.7	18.6	13.3	8.78	5.25	2.68
1.67	105	87.7	71.9	54.0	37.5	28.7	21.4	18.3	13.2	8.71	5.21	2.66
1.70	104	86.5	70.8	53.3	37.0	28.4	21.0	18.0	13.0	8.63	5.17	2.64
1.75	100	83.5	68.3	51.7	35.8	27.5	20.5	17.7	12.8	8.50	5.10	2.60
1.80	96	79.8	66.2	50.0	34.7	26.4	19.8	17.2	12.5	8.28	5.00	2.52

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	192	160	138	112	81.5	61.7	48.7	37.8	26.5	18.5	10.8	5.66
1.65	187	156	136	108	79.0	59.7	47.6	37.0	25.8	18.2	10.7	5.54
1.67	186	155	134	107	78.0	58.9	47.0	36.5	25.6	17.9	10.6	5.49
1.70	184	153	132	106	77.0	58.0	46.4	36.0	25.3	17.6	10.4	5.44
1.75	180	150	128	103	74.6	56.3	45.0	34.6	24.5	16.8	10.3	5.28
1.80	175	146	126	97.8	71.8	54.2	43.5	33.4	23.6	16.5	9.88	5.10

Performance Curve



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