

SP Series

SP12-38 12V38Ah

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

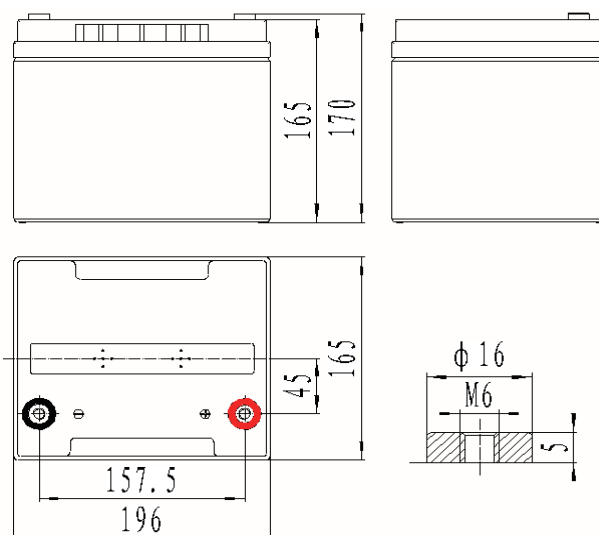
Applications

- UPS units
- Emergency power
- Fire and safety alarm system
- EPS units

Standards

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

Drawing



Specifications

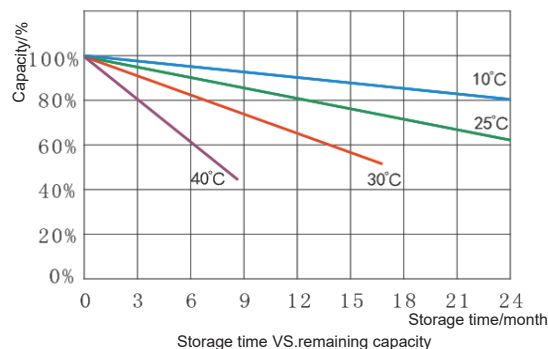
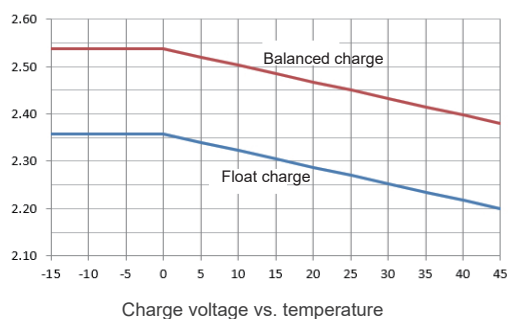
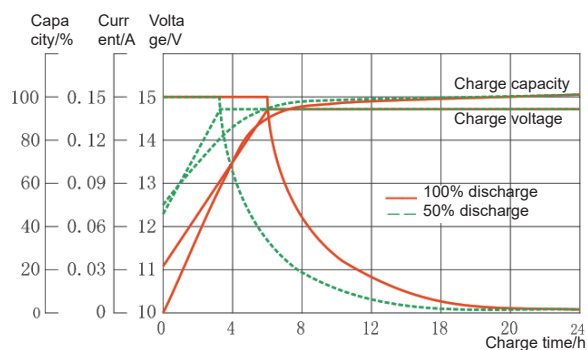
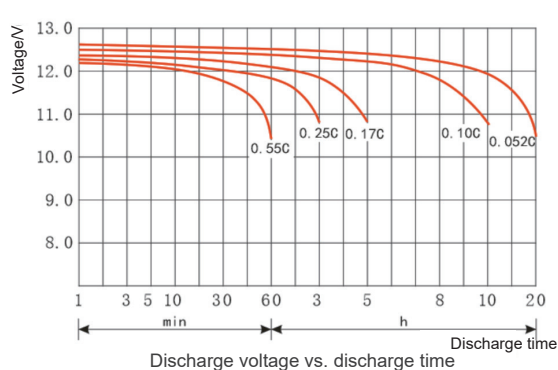
Battery Model	SP12-38			
Design Life (years, 25°C)	10			
Capacity (Ah, 25°C)	20HR (1.94A, 1.80V)	10HR (3.80A, 1.80V)	5HR (6.46A, 1.75V)	1HR(21.6A, 1.70V)
	38.8	38.0	32.3	21.6
Dimensions (mm)	Length	Width	Height	Total Height
	196	165	165	170
Approx. Weight (kg)	12.2			
Reference Internal Resistance (mΩ)	9.0±15%(full charged @ 25°C,testing device:HIOKIBT3562)			
Maximum Discharge Current (A/3 Sec.)	570			
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:9.5A		2.27 (-3.5mV/°C/cell)	
Short Circuit Current (A)	1300(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	79.4	66.2	51.5	40.0	29.0	22.8	18.2	14.5	10.6	6.70	4.02	2.08
1.65	76.6	63.8	49.6	38.8	28.0	22.2	17.7	14.2	10.3	6.60	3.96	2.06
1.67	75.2	62.6	48.8	38.2	27.5	21.9	17.4	14.0	10.2	6.56	3.93	2.04
1.70	73.7	61.4	48.0	37.6	27.0	21.6	17.0	13.8	10.0	6.53	3.90	2.02
1.75	70.8	59.0	46.4	36.5	26.2	20.9	16.5	13.4	9.78	6.46	3.86	1.98
1.80	68.2	56.8	44.8	35.3	25.6	20.0	16.0	13.0	9.50	6.36	3.80	1.94

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	156	130	100	82.7	62.0	45.6	36.8	28.6	20.7	13.2	8.00	4.20
1.65	150	126	97.8	80.7	60.4	44.5	36.0	28.2	20.4	13.0	7.92	4.17
1.67	149	124	96.6	80.0	59.6	44.0	35.9	28.0	20.2	12.9	7.88	4.14
1.70	148	123	95.3	79.3	58.7	43.4	35.8	27.8	20.0	12.8	7.84	4.12
1.75	144	120	92.7	77.3	57.4	42.2	35.0	27.0	19.8	12.7	7.75	4.06
1.80	142	118	90.2	75.2	56.0	40.8	34.3	26.5	19.6	12.5	7.65	3.98

Performance Curve



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