

SP Series

SP12-33 12V33Ah

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

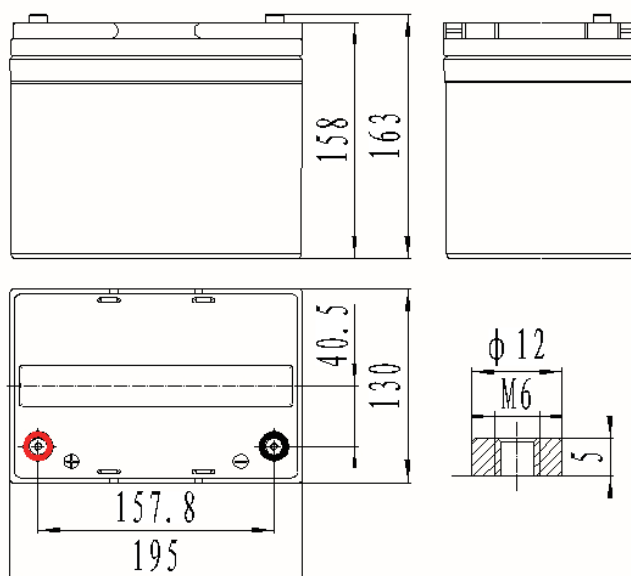
Applications

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

Standards

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

Drawing



Specifications

Battery Model	SP12-33			
Design Life (years, 25°C)	10			
Capacity (Ah, 25°C)	20HR (1.65A, 1.75V)	10HR (3.04A, 1.75V)	5HR (5.48A, 1.75V)	1HR(19.00A, 1.70V)
	33	30.4	27.4	19.00
Dimensions (mm)	Length	Width	Height	Total Height
	195	130	158	163
Approx. Weight (kg)	10.1			
Reference Internal Resistance (mΩ)	8.5±15%(full charged @ 25°C,testing device:HIOKIBT3562)			
Self-Discharge (25°C)	≤ 2 % per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.45 (-3.5mV/°C/cell), max charge current:9.9A		2.27 (-3.5mV/°C/cell)	
Short Circuit Current (A)	850(for reference only)			

Discharge Data

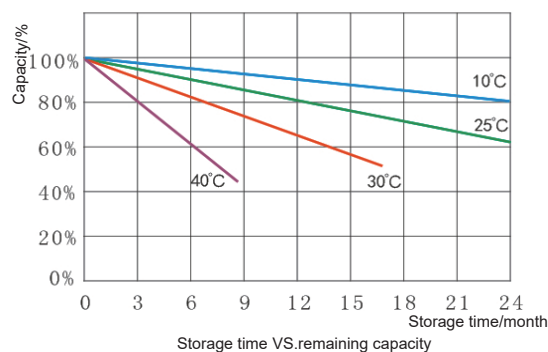
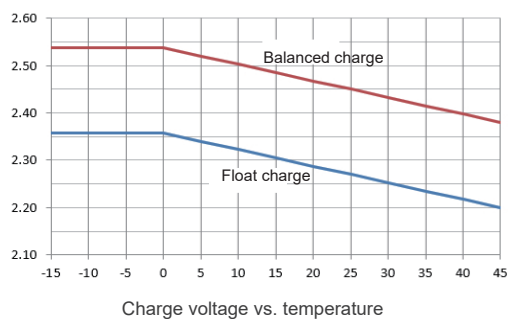
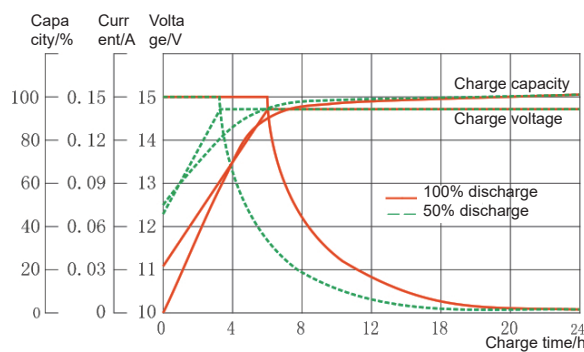
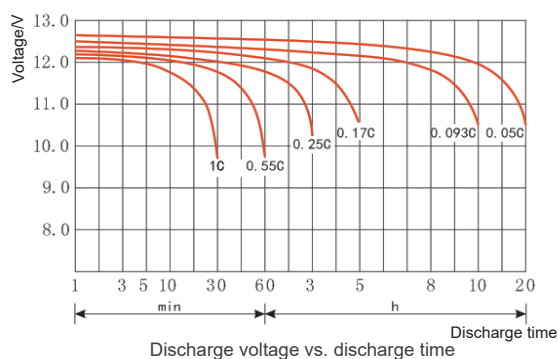
Constant Current Discharge Data (25°C, A)

End Voltage (V/cell)	min					h						
	10	15	20	30	45	1	1.5	2	3	5	10	20
1.60	73.3	59.4	48.6	34.8	25.3	19.8	14.3	11.8	8.50	5.68	3.10	1.70
1.65	70.6	58.0	48.0	34.6	25.0	19.6	14.2	11.7	8.45	5.65	3.08	1.68
1.67	69.2	57.6	47.8	34.5	24.9	19.3	14.1	11.6	8.42	5.64	3.08	1.67
1.70	67.8	57.2	47.6	34.3	24.8	19.0	14.0	11.6	8.40	5.62	3.07	1.66
1.75	65.3	55.2	46.0	33.0	24.0	18.5	13.7	11.4	8.25	5.48	3.04	1.65
1.80	61.7	52.8	44.4	32.0	23.3	18.2	13.3	11.0	8.00	5.37	3.00	1.62

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	135	112	92.8	67.0	49.0	38.8	27.8	23.0	16.8	11.4	6.20	3.32
1.65	130	110	92.4	66.8	48.8	38.6	27.7	22.6	16.7	11.3	6.18	3.30
1.67	128	109	92.1	66.7	48.7	38.3	27.6	22.5	16.6	11.2	6.17	3.29
1.70	127	108	91.8	66.6	48.6	38.0	27.5	22.4	16.5	11.2	6.16	3.28
1.75	123	106	89.2	64.7	47.4	37.6	27.0	22.2	16.4	11.0	6.08	3.26
1.80	118	102	86.2	62.7	46.0	36.7	26.5	22.0	16.0	10.8	6.02	3.24

Performance Curve



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