

SP Series

SP12-100 12V100Ah

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

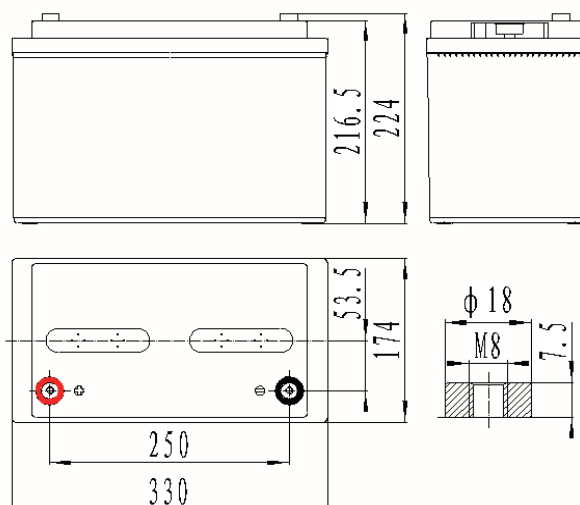
Applications

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

Standards

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

Drawing



Specifications

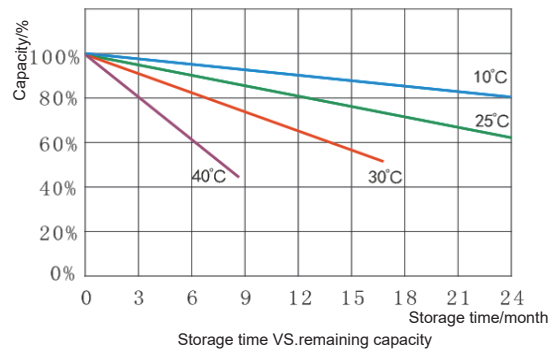
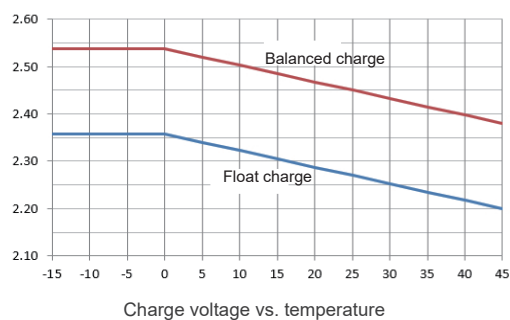
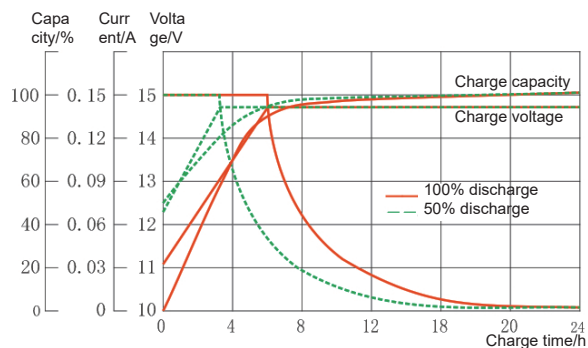
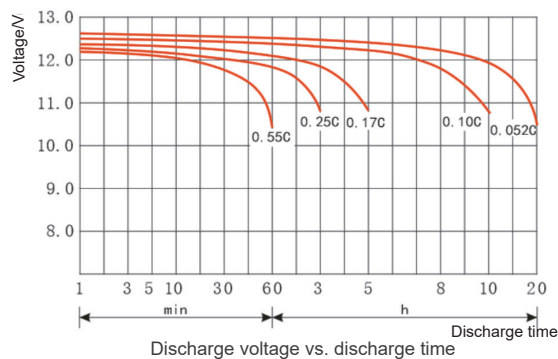
Battery Model	SP12-100			
Design Life (years, 25°C)	10			
Capacity (Ah, 25°C)	20HR (5.15A, 1.80V)	10HR (10.0A, 1.80V)	5HR (17.0A, 1.75V)	1HR(56.2A, 1.70V)
	103	100	85	56.2
Dimensions (mm)	Length	Width	Height	Total Height
	330	174	216.5	224
Approx. Weight (kg)	27.6			
Reference Internal Resistance (mΩ)	5.0±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	
	2.40 (-3.5mV/°C/cell), max charge current: 25A		2.27 (-3.5mV/°C/cell)	
Short Circuit Current (A)	2500(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	208	168	138	102	74.4	59.0	44.0	34.7	26.6	17.6	10.5	5.35
1.65	200	163	134	100	72.5	57.6	43.3	34.3	26.3	17.4	10.4	5.30
1.67	195	160	132	98	71.6	56.9	42.8	34.0	26.1	17.3	10.3	5.27
1.70	190	157	130	97	70.7	56.2	42.4	33.7	26.0	17.2	10.3	5.25
1.75	176	150	126	94	68.8	55.0	41.8	32.8	25.5	17.0	10.2	5.20
1.80	160	143	120	90	67.4	53.0	40.5	32.0	25.0	16.6	10.0	5.15

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	375	316	258	196	145	110	84.5	66.8	50.0	33.3	20.5	10.5
1.65	364	310	253	193	142	108	83.6	66.4	49.8	33.0	20.3	10.4
1.67	351	306	250	190	140	106	83.1	66.0	49.5	32.9	20.1	10.3
1.70	338	302	248	188	138	105	82.7	65.7	49.3	32.8	20.0	10.3
1.75	317	282	240	184	136	102	81.7	65.0	48.8	32.6	19.8	10.2
1.80	293	268	230	178	133	96.0	80.2	63.8	48.0	32.3	19.6	10.0

Performance Curve



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