

SP Series

SP12-80 12V80Ah

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

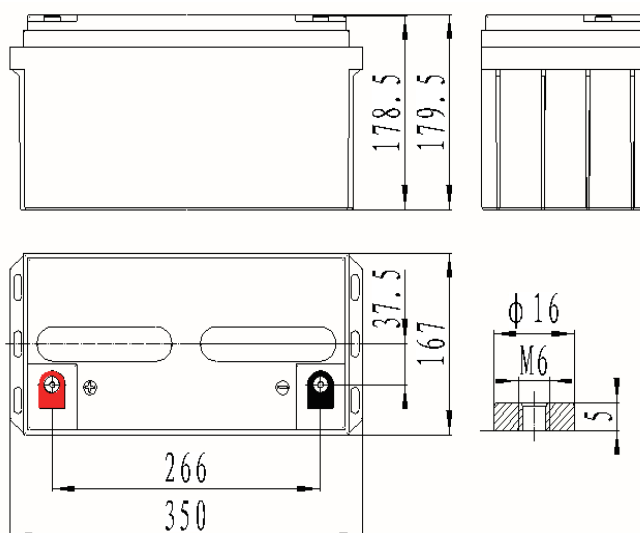
Applications

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

Standards

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

Drawing



Specifications

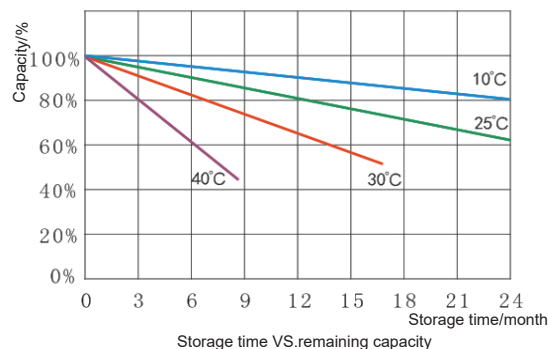
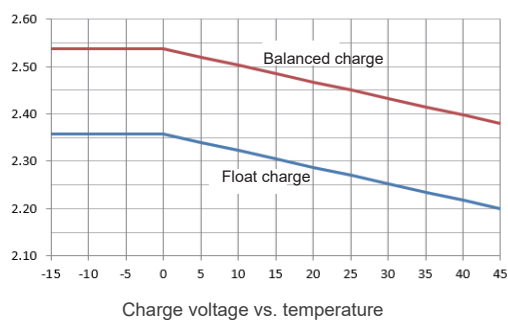
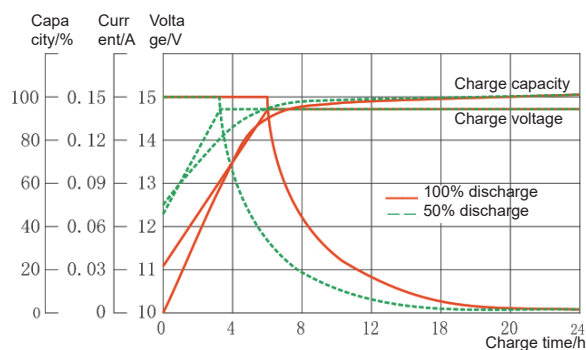
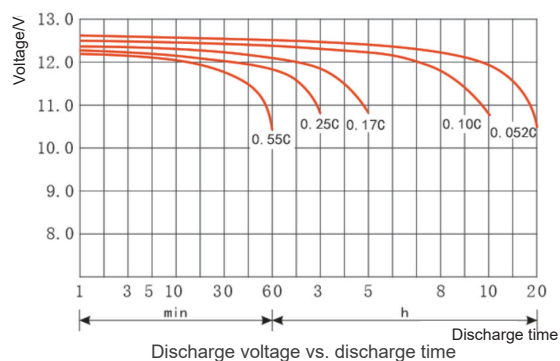
Battery Model	SP12-80			
Design Life (years, 25°C)	10			
Capacity (Ah, 25°C)	20HR (4.10A, 1.80V)	10HR (8.00A, 1.80V)	5HR (13.5A, 1.75V)	1HR(45.0A, 1.70V)
	82.0	80	67.5	45.0
Dimensions (mm)	Length	Width	Height	Total Height
	350	167	178.5	179.5
Approx. Weight (kg)	23.2			
Reference Internal Resistance (mΩ)	5.0±15%(full charged @ 25°C,testing device:HIOKIBT3562)			
Maximum Discharge Current (A/3 Sec.)	975			
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: 20 A		2.27 (-3.5mV/°C/cell)	
Short Circuit Current (A)	2400(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	164	137	110	82.6	58.7	46.5	34.6	29.2	20.8	13.7	8.27	4.24
1.65	160	133	108	81.0	57.7	45.7	34.3	29.0	20.6	13.7	8.20	4.22
1.67	157	131	107	80.5	57.3	45.3	34.1	28.9	20.5	13.6	8.18	4.21
1.70	154	128	105	80.0	56.8	45.0	34.0	28.8	20.4	13.6	8.16	4.20
1.75	150	125	102	78.0	55.5	44.0	33.7	28.5	20.2	13.5	8.08	4.16
1.80	144	120	98.5	75.3	53.7	42.8	33.0	28.0	20.0	13.4	8.00	4.10

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	298	248	203	150	114	86.3	69.4	55.5	39.6	26.5	16.2	8.25
1.65	295	246	200	148	112	85.3	68.7	55.0	39.4	26.3	16.0	8.20
1.67	292	244	198	147	111	84.7	68.5	54.8	39.3	26.3	15.9	8.18
1.70	290	242	196	147	110	84.2	68.3	54.7	39.2	26.3	15.8	8.17
1.75	280	234	193	145	108	83.0	67.7	54.0	39.0	26.0	15.6	8.14
1.80	268	224	187	140	107	81.2	66.9	53.2	38.7	25.8	15.4	8.07

Performance Curve



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