

# SP Series

## SP12-120 12V120Ah

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

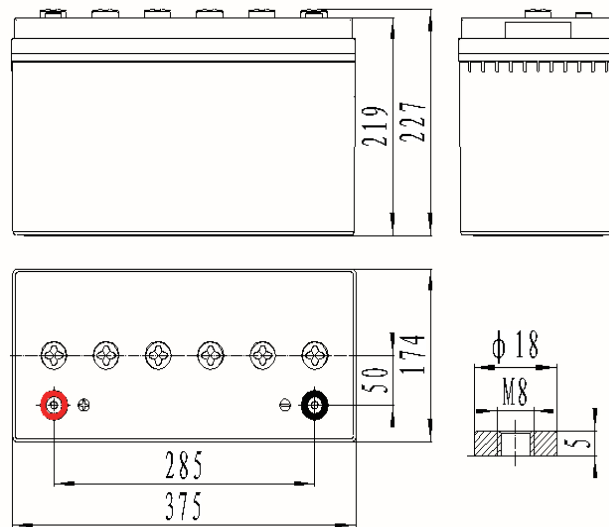
### Applications

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

### Standards

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

### Drawing



### Specifications

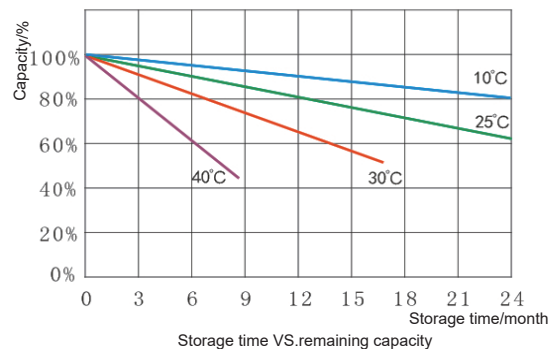
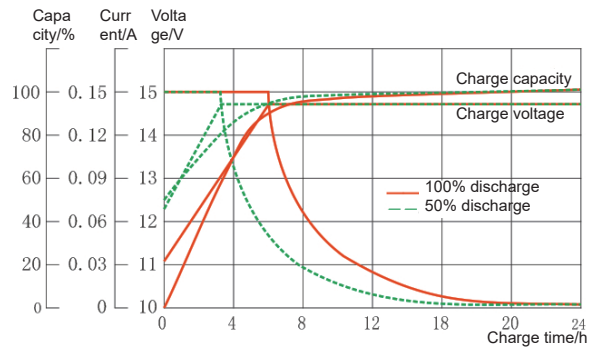
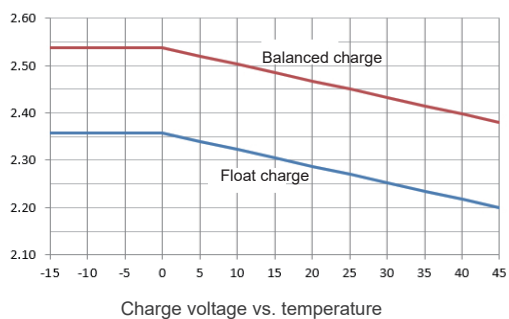
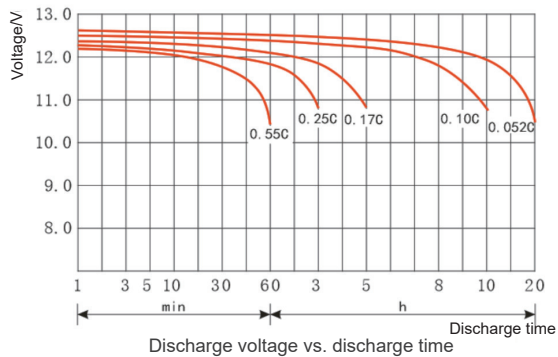
Battery Model	SP12-120			
Design Life (years, 25°C)	10			
Capacity (Ah, 25°C)	20HR (6.20A, 1.80V)	10HR (12A, 1.80V)	5HR (20.4A, 1.75V)	1HR(68.0A, 1.70V)
	124	120	102	68
Dimensions (mm)	Length	Width	Height	Total Height
	375	174	219	227
Approx. Weight (kg)	33.5			
Reference Internal Resistance (mΩ)	4.3 ±15%( full charged @ 25°C,testing device:HIOKIBT3562)			
Maximum Discharge Current (A/3 Sec.)	1200			
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: 30A		2.27 (-3.5mV/°C/cell)	
Short Circuit Current (A)	2900(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	260	217	175	132	92.6	71.6	53.7	44.5	32.7	21.7	12.4	6.55
1.65	256	213	170	128	91.0	69.8	53.0	43.6	32.3	21.3	12.3	6.45
1.70	246	205	164	126	88.8	68.0	52.0	42.7	31.7	20.8	12.3	6.37
1.75	232	193	157	122	85.5	66.0	50.8	42.0	31.0	20.4	12.2	6.30
1.80	214	178	147	114	80.8	63.0	48.5	40.5	30.0	19.7	12.0	6.20

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	444	370	302	237	177	135	105	82.8	61.4	40.3	24.8	13.0
1.65	438	365	297	232	175	132	104	81.8	60.8	39.8	24.6	12.8
1.70	428	357	290	227	172	128	103	80.8	60.2	39.5	24.4	12.6
1.75	410	342	283	222	168	127	100	80.2	59.6	39.0	24.2	12.5
1.80	384	320	268	215	163	123	99.0	78.7	58.5	38.5	23.8	12.3

## Performance Curve



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