6-SPB Series Spiral Pure Lead Battery 6-SPB-50A





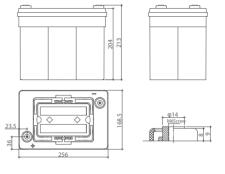
Main Applications

- UPS
- Communication station
- Solar energy storage
- Smart grid
- Diferent standby power supply

Benefits

- Applicable in -45°C ~ 75°C
- The cycle life of 100% DOD reaches more than 350 times
- The designed float life is 15 years
- The time of high rate discharge is two times more than ordinary battery

Dimensions



Certification

☑ ISO 9001
☑ ISO 14001
☑ ISO 18001

Technical Parameters

Nominal Voltage	12 V					
Capacity	50 Ah @ 10hr to 1.80 V per cell @ 25°C (77°F)					
Weight	18 kg (39.68 lbs)					
	Length:256 mm (10.08 in)					
	Width:168.5 mm (6.63 in)					
Dimensions	Height:204 mm (8.03 in)					
	Total height:213 mm (8.39 in)					
Internal Resistance (full charged)	2.9 mΩ					
Short- circuit Current	2251 A					
Self Discharge @25°C(77°F)	Less than 8% after 90 days storage					
	Discharge: -45°C \sim 75°C (-49°F \sim 167°F)					
Operating Temperature Range	Charge: -20°C \sim 50°C (-4°F \sim 122°F) Storage: -20°C \sim 40°C (-4°F \sim 104°F)					
Recommended Operating Temperature	15°C ~ 35°C					
Recommended Charging Current	5 A~20 A					
Charging Voltage @25°C(77°F)	Float: 2.25 V/cell,Temps coefficient -3mV/ cell•°C Cycle: 2.40 V/cell					
Terminal	M6					
Capacity Affected by Temperature(C ₁₀)	105% @ 40°C(104°F) 95% @ 0°C(32°F) 80% @ -20°C(-4°F)					

Technical Features

- With ultra-thin high purity lead frame design, a higher charge efciency with trickle current is achieved
- With unique spiral wound design, the dehydration and bulging deformation of the battery are avoided in high-temperature
- Excellent fast charging performance, more than 95% of electricity is gained within 40 minutes
- Good battery consistency, available more strings in parallel



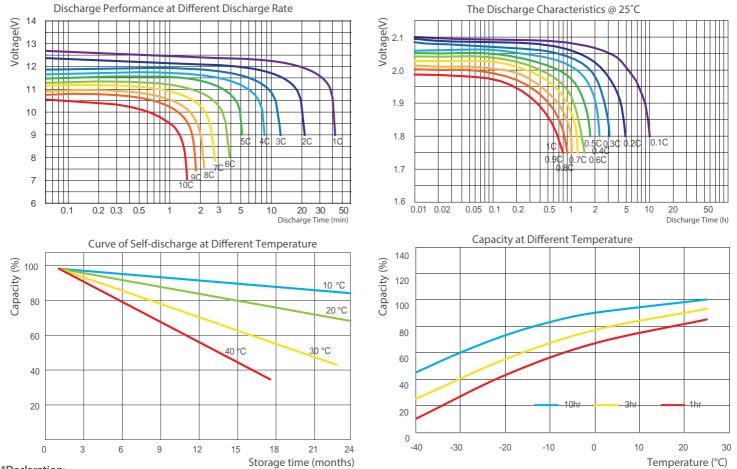
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	2min	5min	10min	15min	20min	30min	45min	1hr	2hr	3hr	4hr	5hr
1.85V	260.0	188.7	126.7	98.0	83.0	63.5	44.5	36.3	21.1	13.8	9.8	8.1
1.75V	353.3	237.3	153.3	120.0	89.1	66.2	47.0	38.3	21.4	14.9	11.3	8.8
1.65V	412.0	260.0	165.3	123.3	94.1	70.1	49.1	39.0	21.8	15.3	11.3	8.9

Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

F.V/Time	2min	5min	10min	15min	20min	30min	45min	1hr	2hr	3hr	4hr	5hr
1.85V	483.3	361.1	250.0	190.0	163.3	117.9	87.8	73.9	40.9	26.8	19.3	16.0
1.75V	611.1	436.1	298.9	222.2	183.3	129.0	94.4	75.6	41.0	28.9	21.9	17.4
1.65V	705.6	477.8	305.6	227.4	186.7	132.1	95.6	76.7	41.4	29.5	22.1	17.5

Performance curve



*Declaration:

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