6-SPB SeriesSpiral Pure Lead Battery

6-SPB-50A





Main Applications

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

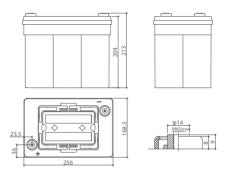
Benefits

- 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

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-					
Charging Voltage @25 C(77 T)	Cycle: 2.40 V/cell					
Terminal	M6					
	105% @ 40°C(104°F)					
Capacity Affected by Temperature(C_{10})	95% @ 0°C(32°F)					
	80% @ -20°C(-4°F)					

Dimensions



Certification

- ☑ ISO9001 (03006Q10084R1M)
- ☑ ISO14001 (03004E10097R0M)
- ☑ ISO18001 (03006S10002R0M)

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
- ■Good battery consistency, available more strings in parallel

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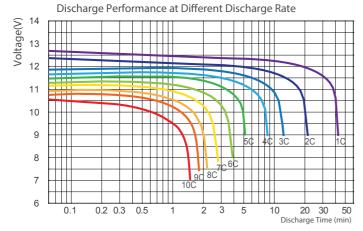
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

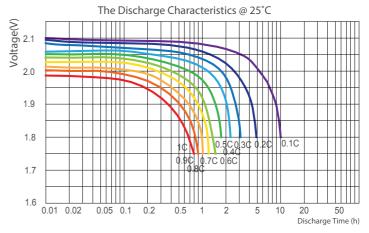
F.V/Time	2min	5min	10min	15min	20min	30min	45min	1hr	2hr	3hr	4hr	5hr
1.85V	260.0	188.7	126.7	98.0	83.0	63.5	44.5	36.3	21.1	13.8	9.8	8.1
1.75V	353.3	237.3	153.3	120.0	89.1	66.2	47.0	38.3	21.4	14.9	11.3	8.8
1.65V	412.0	260.0	165.3	123.3	94.1	70.1	49.1	39.0	21.8	15.3	11.3	8.9

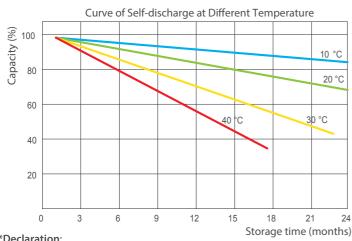
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

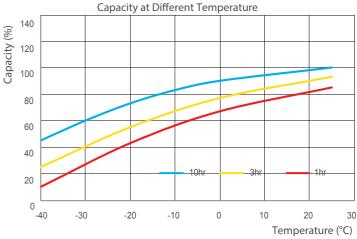
F.V/Time	2min	5min	10min	15min	20min	30min	45min	1hr	2hr	3hr	4hr	5hr
1.85V	483.3	361.1	250.0	190.0	163.3	117.9	87.8	73.9	40.9	26.8	19.3	16.0
1.75V	611.1	436.1	298.9	222.2	183.3	129.0	94.4	75.6	41.0	28.9	21.9	17.4
1.65V	705.6	477.8	305.6	227.4	186.7	132.1	95.6	76.7	41.4	29.5	22.1	17.5

Performance curve









*Declaration:

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specifications are subject to modification without notice. Contact CHINASHOTO for the latest information.

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