

6-SPB Series

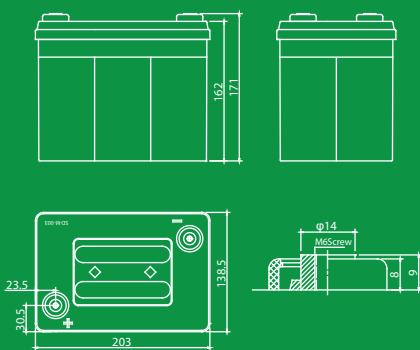
Spiral Pure Lead Battery

6-SPB-25

HELIOS
POWER SOLUTIONS



• Dimensions :



• Attain Certificate :

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

• Main Applications

UPS
Communication station
Solar energy storage
Smart grid
Different standby power supply

• Benefits

Applicable in $-45^{\circ}\text{C} \sim 75^{\circ}\text{C}$
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 Features

With ultra-thin pure lead frame design, a higher charge efficiency 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

• Technical Parameters

Normal Voltage	12V
Capacity	25 Ah @ 10hr to 1.80V per cell @ 25°C (77°F)
Weight	9 kg(19.84lbs)
Dimensions	Length:203mm (8.00 in) Width:138.5mm (5.45in) Height: 162mm (6.38 in) Total height:171mm (6.73 in)
Internal Resistance (full charged)	4.0 m Ω
Short- circuit Current	1157 A
Self Discharge @ 25°C (77°F)	Less than 8 % after 90 days storage
Operating Temperature Range	Discharge: $-45^{\circ}\text{C} \sim 75^{\circ}\text{C}$ ($-49^{\circ}\text{F} \sim 167^{\circ}\text{F}$) Charge: $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$ ($-4^{\circ}\text{F} \sim 122^{\circ}\text{F}$) Storage: $-20^{\circ}\text{C} \sim 40^{\circ}\text{C}$ ($-4^{\circ}\text{F} \sim 104^{\circ}\text{F}$)
Recommended Operating Temperature	$15^{\circ}\text{C} \sim 25^{\circ}\text{C}$
Recommended Charging Current	10 A
Charging Voltage @ 25°C (77°F)	Float: 2.25 V/cell, Temps coefficient -3mV/ cell $\cdot^{\circ}\text{C}$ 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)

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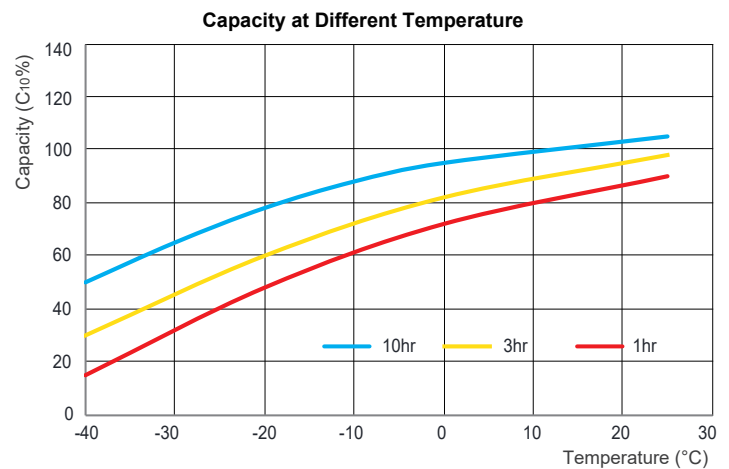
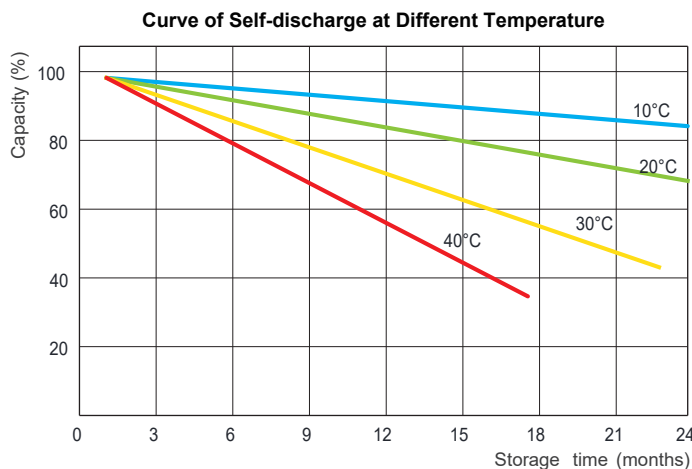
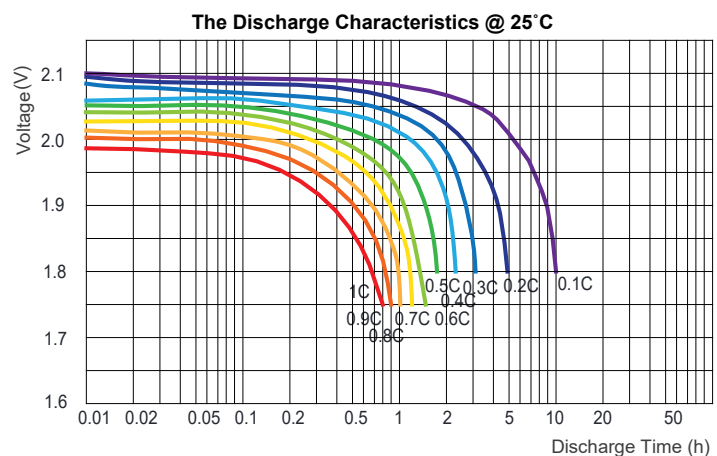
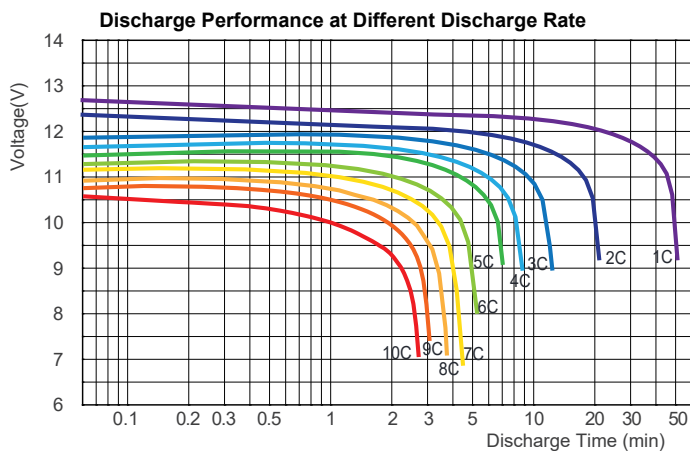
• Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	2min	5min	10min	15min	20min	30min	45min	1hr	2hr	3hr	4hr	5hr
1.85V	145.1	111.8	71.5	54.6	44.6	33.1	25.1	20.2	11.0	7.2	5.1	4.2
1.75V	183.8	138.9	81.8	59.8	49.1	34.5	25.9	20.9	11.2	7.8	5.9	4.6
1.65V	222.1	139.7	85.3	62.7	51.0	36.7	26.8	21.6	11.4	8.0	5.9	4.6

• 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	272.2	211.3	136.0	104.6	86.0	64.3	49.1	39.8	21.7	14.3	10.3	8.5
1.75V	331.5	253.2	150.6	111.3	92.3	65.6	49.6	40.5	21.8	15.4	11.6	9.3
1.65V	386.7	246.8	152.6	113.7	93.7	68.4	50.5	41.2	22.0	15.7	11.8	9.3

• 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 HELIOS for the latest information.

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