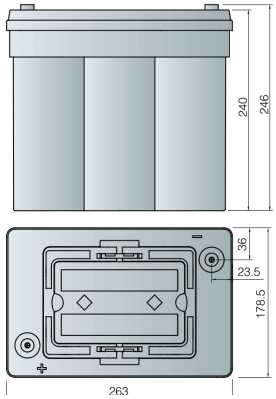
6-SPB-75

SPIRAL VRLA BATTERY

SPIRAL SEALED LEAD RECHARGEABLE BATTERY

The battery appearance：



Application Fields

- Instruments
- Electric tools
- Physical exercise devices
- Medical devices
- Solar light
- Electricity transferring equipment
- Standby power supply

The battery specifications：

Open circuit voltage	12V
Capacity (10Hr / 20Hr)	75Ah / 80Ah
Weight	25.8Kg
workable under	-50°C~75°C
Resistance	2.6mΩ
Specific energy（10h rate）wh/kg	34.3
Specific energy（1 ratio）wh/kg	25.7
Maximum power w/kg	540
Float Voltage (25℃)	13.6V
Cycle of charging voltage (25℃)	14.7V

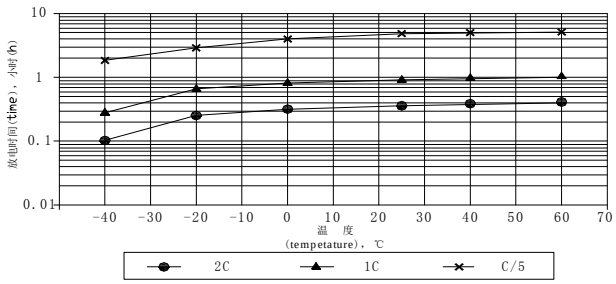
Characteristics

- Superior high and low temperature performance，workable under -55℃-75℃
- Good PSOC performance
- Excellent low current charge acceptance
- No free electrolyte，workable with any orientation
- Steady high voltage output，high energy density
- Fast chargeable，95% state of charge can be reached in 40 minutes
- Starting type SPB can be discharged with super high discharge rate,the max.discharge rate is $18C_{10}$
- Very good consistency,can be connected serially and/or in parallel
- Shelf life is almost 2 years
- Long service life
  - The cycle life is 350 under 100%DOD and 700 under 80%DOD at C/5 discharge rate
  - The design service life under floating application is 15 years
  - The design service life in solar application is 10 years

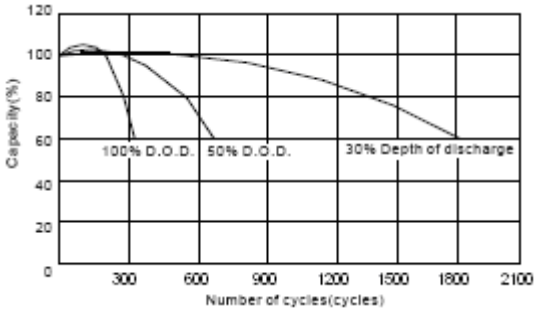
2011-01

Electrical Performances：

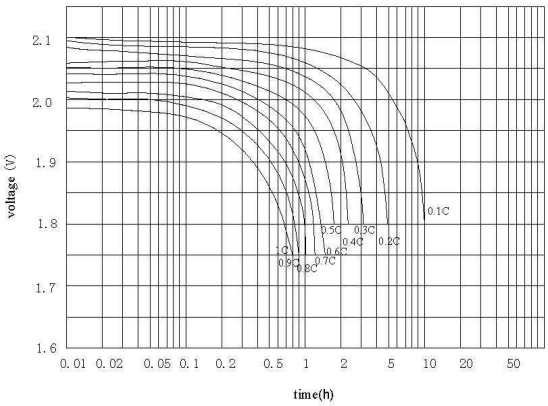
The influences of temperature on battery Capacity



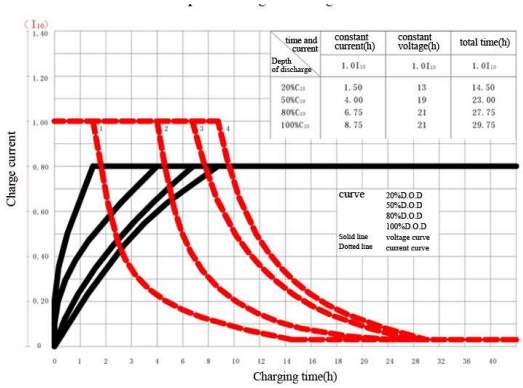
Cycle service life in relation to depth of discharge



Battery constant current discharge performance at 25℃



Different depth of charge-discharge characteristic



Discharge Characteristic：

6-SPB-75 discharge characteristics (25℃)						
	discharge to 11.1V		discharge to 10.5V		discharge to 9.9V	
Time	constant current (A)	constant power (W)	constant current (A)	constant power (W)	constant current (A)	constant power (W)
2min	456.00	5031.00	586.50	5508.00	692.25	5877.00
5min	303.75	3411.00	363.75	3780.00	423.75	4122.00
10min	228.75	2511.00	252.00	2826.00	270.75	3141.00
15min	175.50	1989.00	189.00	2115.00	207.00	2358.00
20min	141.75	1656.00	161.25	1827.00	170.25	1908.00
30min	101.25	1179.00	108.00	1260.00	116.25	1314.00
45min	75.75	864.00	80.25	918.00	81.75	936.00
1h	57.75	684.00	62.25	711.00	63.75	729.00
2h	30.75	369.00	32.25	387.00	33.75	396.00
3h	23.25	279.00	24.00	288.00	25.50	297.00
4h	17.25	207.00	18.00	216.00	18.75	234.00
5h	13.50	162.00	14.25	171.00	15.75	180.00
8h	8.25	99.00	9.00	108.00	9.75	117.00
10h	7.13	90.90	7.65	93.60	8.03	98.10
20h	3.90	41.40	4.05	43.20	4.28	45.00