GEL BATTERY 储能用胶体蓄电池 JYHY12500G(12V50AH)

JINYUANHUANYU

Specification 基本特性

- ◆Micro millimeter SiO2 and H2SO4 techologyfor Efficient gasrecombination of up to 99% and Freedom from electrolyte maintenance or water adding. 纳米级的二氧化硅-硫酸胶体技术使得气体还原反应效率高达99%以上
- ◆UL-recognized component.产品通过UL. CE认证
- ◆Can be mounted in any orientation.除倒置外，可任意方向安装使用
- ◆Computer designed lead,calcium tin alloy grid for high power density. 采用高锡铅钙多元合金板栅
- ◆Low self discharge.自放电低
- ◆low gas escape 低气体析出
- ◆good consistence on deep discharge,long cyclic life.深度放电时一致性好
- ◆With float charging,the designed service life for the Gel battery is up to 6 years 胶体电池做为后备浮充使用,设计寿命可达6年
- ◆Solid state electrolyte stratification gel electrolyte can be avoided and reduced corrosivity 固体状态的胶体电解质可避免电解液分层及降低腐蚀性
- ◆Using a special partition can effectively prevent short circuit of battery, and to ensure that the extreme ambient temperature can be used 采用特殊的隔板可有效防止电池短路，并确保在极端环境温度下仍可使用
- ◆SPECIFICATION 参数

  Nominal voltage 额定电压 ……12V

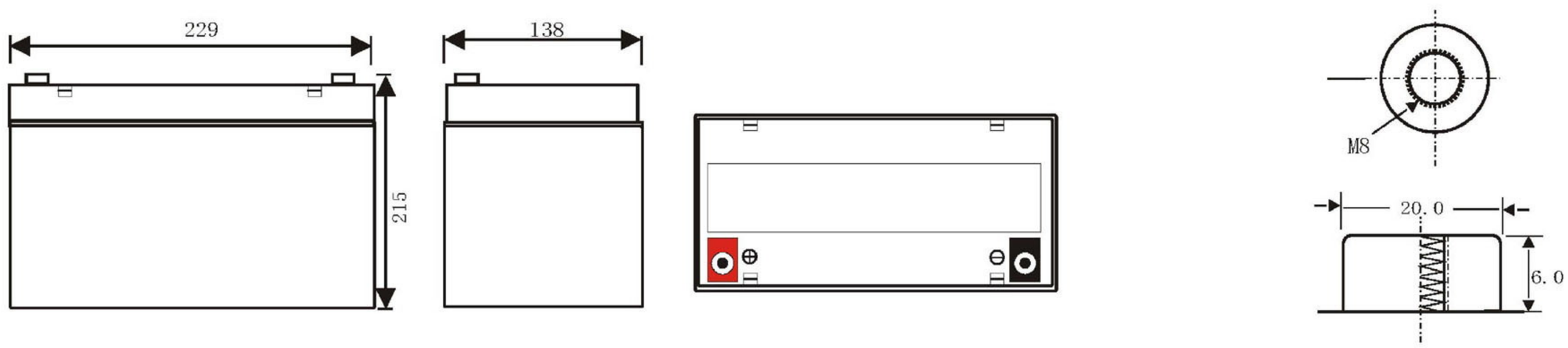
  Number of cell 单格数 ……6

  Approx.weight(kg)净重……15.6KG

PerformanceCharacteristics 性能参数

额定容量 Capacity 77° F（25° C）	10 hour rate(5.0A)	50Ah
	5 hour rate(8.5A)	42.35Ah
	1 hour rate(30A)	30Ah
内阻Internal Resistance	Approx.12mΩ	
适用温度范围 Operating TemperatueRange	Discharge :-30℃～60℃ 放电（温度范围）	
	Charge:-20℃～50℃ 充电（温度范围）	
	Storage:-30℃～60℃ 储存（温度范围）	
标准适用温度范围	Normal Operating Tempe rature Range: 25℃±5℃	
自放电 Self-Discharge	胶体电池，在常温25摄氏度的环境下至少可以储存12个月 电池 在使用之前先充电，储存时周围环境温度越高，它的储存周期越短。 GEL batteries can be stored for more than 12 months at 25℃.please charge batteries before using .For higher temperature,the time interval will be shorter.	
每月自放电率≤1.3% Self discharge rate ≤ 1.3% monthly		
最大放电电流 Max,discharge current77° F（25° C）：375A(5S)		
恒压充电 Charger（Constant Voltage）	浮充使用 Float charging Voltage	13.6 to 13.8VDC/unit Average at 25℃
	循环使用 Equalization on and Cycle Service	14.6 to 14.8VDC/unit Average at 25℃
建议充电最大电流为15.5A Recommended Maximum Current Limit:15.5A		

产品尺寸(单位:毫米)Dimensions (Unit:mm) :229(L)×138(W)×215(H)



电池结构Battery Construction

元件 Component	正极板 positive plate	负极板 negative plate	胶壳 Container	胶盖 Cover	安全阀 Safety valve	端子 Terminal	隔板 Separator	电解质 electrolyte
原料 Raw material	二氧化铅 Lead dioxide	铅 Lead	ABS	ABS	橡胶 Rubber	铜 Copper	玻璃纤维/PE Fiberglass/PE	硅溶胶 colloidal silicon

恒流放电特性Constant current discharge characteristicsUnit:A(20℃)

F. V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9. 60V	105	82. 5	50. 0	31. 0	18.3	12. 8	10. 5	8. 93	6. 12	5. 09	2. 67
9. 90V	102	80. 5	49. 0	30. 5	18.2	12. 7	10. 4	8. 87	6. 08	5. 08	2. 67
10. 2V	97. 7	77. 6	47. 5	29. 8	18.0	12. 6	10. 3	8. 81	6. 04	5. 07	2. 66
10. 5V	93. 5	74. 9	46. 4	29. 2	17.7	12. 5	10. 3	8. 75	6. 00	5. 04	2. 64
10. 8V	88. 2	71. 0	44. 7	28. 3	17.3	12. 1	9. 94	8. 49	5. 82	5. 00	2. 63

恒功率放电特性Constant power discharge characteristicsUnit:W(20℃)

F. V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9. 60V	1134	906	561	353	212	150	123	105	72. 7	60. 8	32. 1
9. 90V	1100	884	550	348	210	149	122	105	72. 3	60. 7	32. 0
10. 2V	1055	851	533	339	208	148	121	104	71. 8	60. 5	31. 9
10. 5V	1009	823	520	333	205	147	121	103	71. 3	60. 1	31. 7
10. 8V	953	779	501	322	200	143	117	100	69. 1	59. 7	31. 5

All mentioned values are average values

ISO9001:2008 Certificate

CQC

MA AL

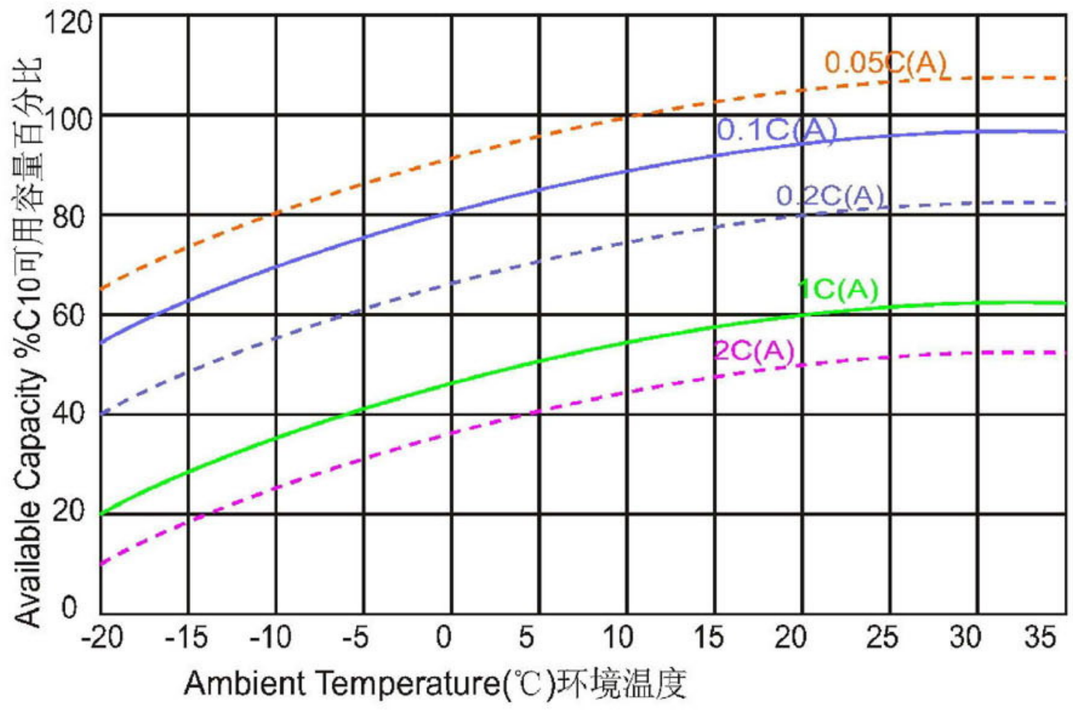
CE

ETS EMC Germany tested

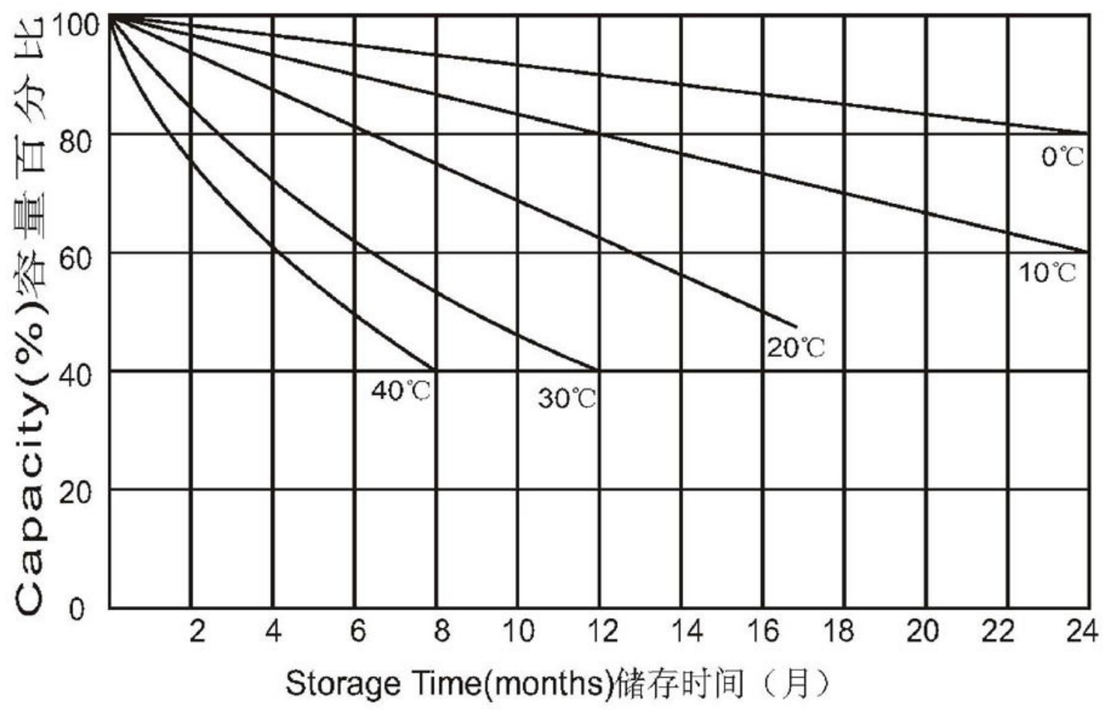
MH27856

金太阳认证

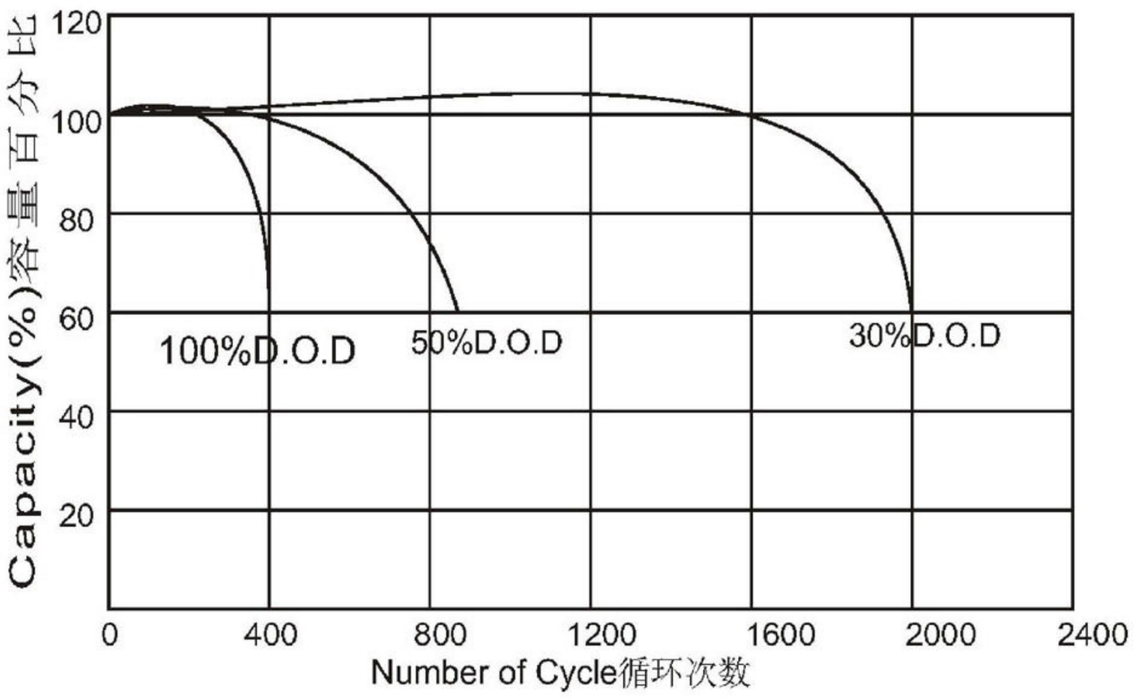
温度影响曲线图
Temperature effects curve



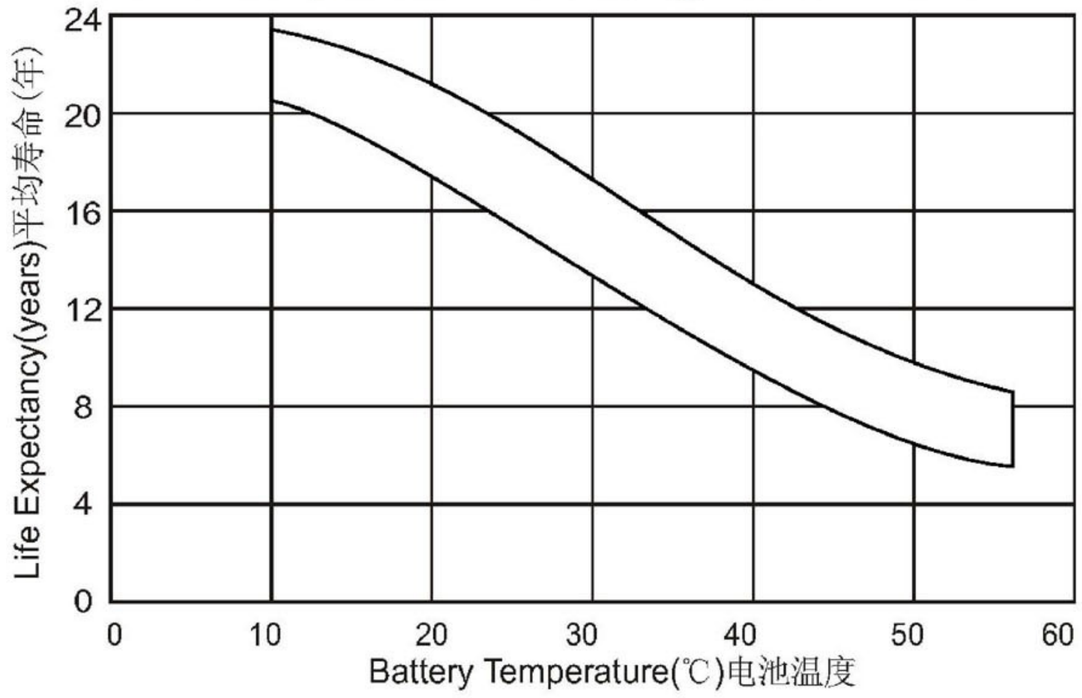
储存特性
Storage characteristic



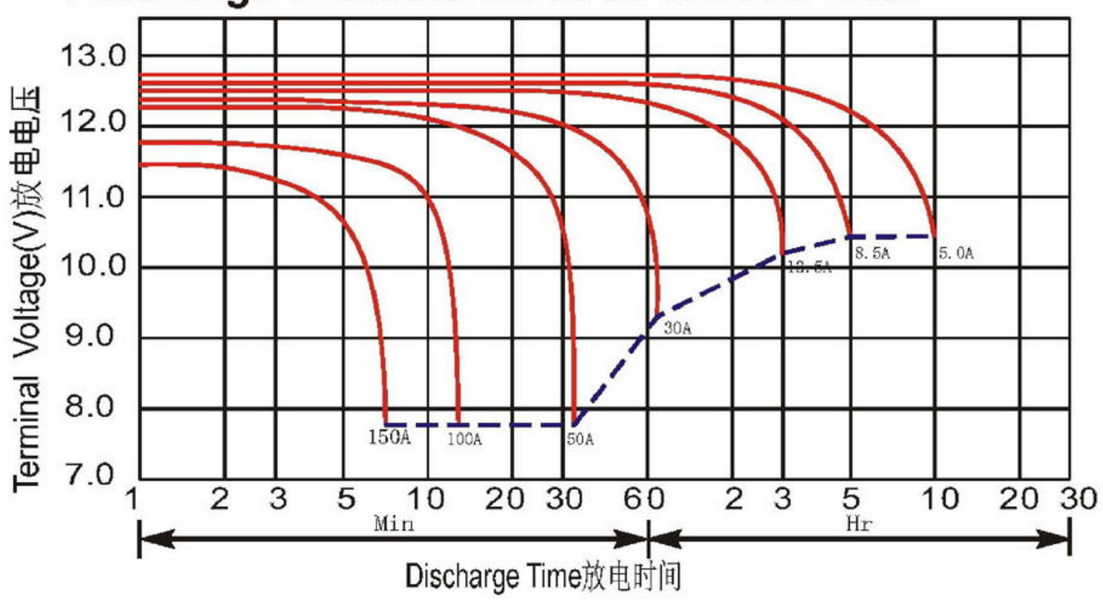
循环使用寿命
Life characteristics of cyclic use



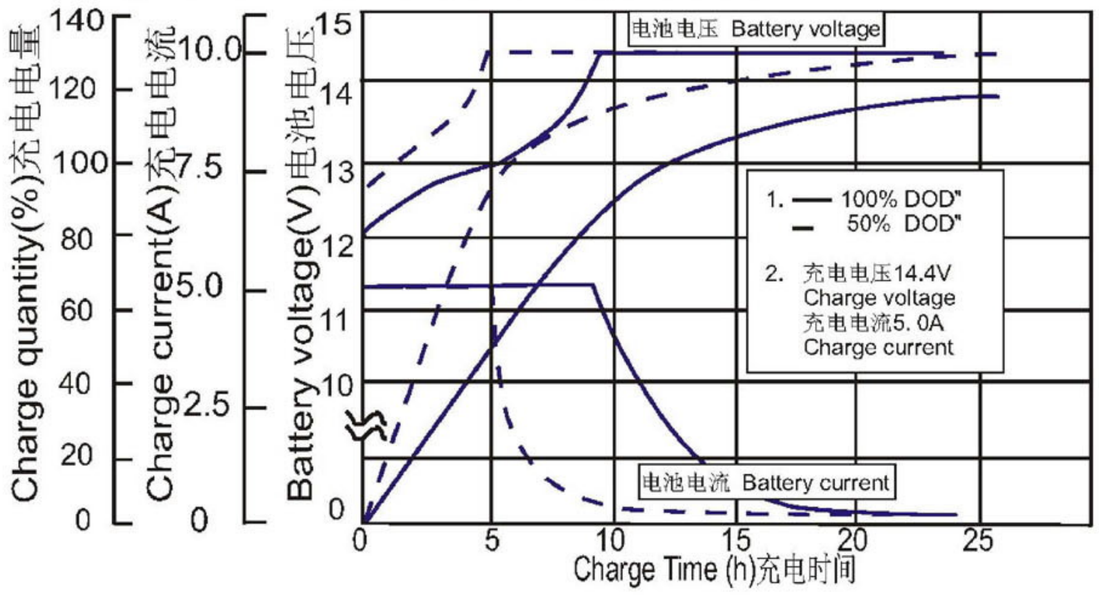
温度对长期浮充使用寿命的影响
Effect of temperature on long term float life



放电特征曲线
Discharge characteristics at various rates



充电特征曲线(循环使用)
Charge characteristics for cycle use



充电方法
Charging Procedures(12V series)

方法 Application	ChargeVoltage(V)充电电压			最大电流 Max.Charge Current
	温度 Temperature	设置电压 Set point	允许使用范围 Allowable range	
Cycle use	25℃	14.8	**14.6～14.8**	0.3C
Standby	25℃	13.7	**13.6～13.8**	0.3C

放电电流与放电电压
Discharge Current VS.Discharge Voltage

终止电压 Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
放电电流 Discharge Current(A)	(A)≤0.2C	**0.2C<(A)<1.0C**	(A)≥ 1.0C