



不貪 / 學慙 / 敬業



VALVE REGULATED LEAD ACID BATTERY

阀控密封式免维护铅酸蓄电池





COMPANY PROFILE

Guangdong Huashen Power Co., Ltd. is an enterprise specializing in the R&D, production and sales of batteries. Jiyuan Huashen Power Co., Ltd., the company's production base, is located in Jiyuan City, Henan Province, the youngest and most dynamic emerging industrial city and the smelting town in the Central Plains in China. Jiyuan Huashen Power Co., Ltd. is a subsidiary of Jiyuan Wanyang Smelting Group, one of the top 500 private enterprises in China. It mainly produces valve-regulated sealed lead-acid batteries, colloidal batteries, solar energy storage batteries, power batteries, lithium batteries and other related products.

The company covers an area of 500 mu. Its investment amount exceeds RMB 100 million. The designed and approved production scale is an annual battery capacity of 3.6 million kva. The company is equipped with a number of advanced intelligent production lines in the industry. The company was officially put into production with an annual output value of RMB 3 billion at the beginning of 2013.

Since its inception, the company has been adhering to the tenet of market-oriented, customer-centric and satisfying the needs of our customers. The company has established a good reputation in the market through excellent services. Its products have been widely used in communication, power, transportation, finance, education, UPS, EPS, security, solar energy, electric vehicles and other related industries.

Jiyuan is also the birthplace of the story of "Yugong Moving Mountains". We will inherit and carry forward the spirit of Yugong, and make unremitting efforts in creation and innovation without fear of hardship. We will continue to maintain the high cost performance of our products and strengthen our services, thereby creating more and higher value for our customers.

COMPANY PROFILE 公司简介

广东华申电源有限公司是一家专注于蓄电池的研究、生产与销售的企业。公司生产基地为济源华申电源有限公司，位于中国中原最年轻最具活力的新兴工业城市、冶炼之乡河南省济源市。济源华申电源有限公司隶属中国民企500强之一的济源万洋冶炼集团，主要生产阀控式密封铅酸蓄电池、胶体蓄电池、太阳能储能蓄电池、动力蓄电池和锂电池等相关产品。

公司占地500亩，投资金额过亿元，设计和审批的生产规模为年产蓄电池360万千瓦安时，配备有多条行业先进的智能化生产线，2013年年初正式投入生产，可实现年产值30亿元。

公司将以市场为导向，以客户为中心，以满足广大客户的需求为宗旨，并通过优质的服务在市场上建立良好的信誉，产品应用于通信、电力、交通、金融、教育、UPS不间断电源、EPS应急电源、安防、太阳能、电动车等多个相关产业。

北京盛世君诚科技有限公司是我厂战略合作伙伴，荷力克品牌有我厂OEM，所有资质共享。

以诚铸信
· 携手共赢



QUALIFICATIONS AND HONORS 资质和荣誉



OHSAS18001 认证
OHSAS18001 Certificate



ISO14001 认证
ISO14001 Certificate



ISO9001 认证
ISO9001 Certificate



泰尔认证 2V系列
TLC Certificate



泰尔认证 12V系列
TLC Certificate



CE认证
CE Certificate



MSDS 说明书
Material Safety
Data Sheet



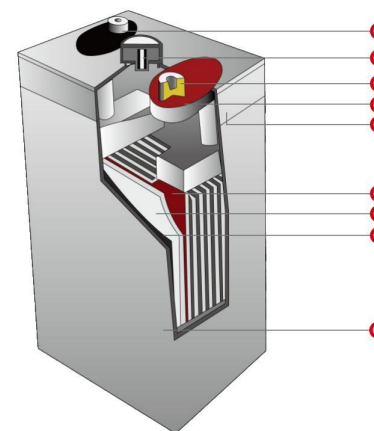
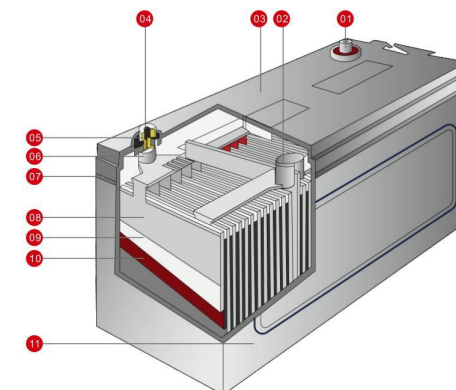
抗震性能合格证
Certificate of Anti-
seismic Capability



全国工业产品生产许可证
National Industrial Production Permit

BATTERY STRUCTURE 产品结构

- 01 正极端子/Positive terminal post
- 02 内部连接/Inter-cell connector
- 03 安全阀/Vent valve
- 04 负极端子/Negative terminal post
- 05 密封胶/Sealing compound
- 06 O型圈/O-ring
- 07 上盖/Container cover
- 08 负极板/Negative plate
- 09 玻璃纤维隔板/Separator
- 10 正极板/Positive plate
- 11 高强度ABS外壳/Container



- 01 负极端子/Negative terminal post
- 02 防爆栓/Vent valve
- 03 正极端子/Positive terminal post
- 04 密封胶/Sealing compound
- 05 上盖/Container cover
- 06 负极板/Negative plate
- 07 玻璃纤维隔板/Separator
- 08 正极板/Positive plate
- 09 高强度ABS外壳/Container

PRODUCT FEATURES 产品介绍

荷力克铅酸蓄电池增强耐腐蚀性的独特板合金配方和活性物质配方，科学紧凑的结构设计，独特的气体再化合技术，优良的隔板 and 紧装配技术，先进的生产工艺和严格的生产过程控制，一贯的坚持高品质决心使得产品有以下特点：

Helike LEAD-ACID Battery Enhanced Corrosion Resistance Of The Plate Grid Alloy Special Formula, The Active Material Formula, Scientific And Compact Structure Design, Unique Gas Recombination Technology, Excellent Clapboard And Tight Assembly Technology, Advanced Production Technology And Strict Production Process Control, Always Adhere To High Quality Determination Makes The Product Has The Following Features :



05 密封性能好/Good sealing performance

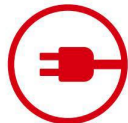
能保证使用寿命期间的安全性和密封性，无污染、无腐蚀，可立式放置或卧式放置使用，密封结构能将产生的气体再化合成水，在使用的过程中无需补水。

Can ensure the safety and sealing during the service life, No pollution, No corrosion, Can be placed vertically or horizontally placed to use, The sealing structure can produce gas recombination into water, In the process of use without water.

06 导电性好/Good electrical conductivity

采用纯铜和铅锡端子，导电性优良，可大电流放电。

Pure copper and lead tin terminals, Excellent electrical conductivity, Large current discharge.



07 充电接受能力强/Strong charging acceptance ability

可快速充电，容量恢复省时省电。

Quick charging, saving time and electricity for capacity recovery.

08 安全性能好/Good safety performance

正常使用时无电解液漏出，无鼓胀无破裂，安全可靠的防爆排气系统可在非正常使用时，消除由于压力过大造成外壳鼓胀和液漏的现象。

No electrolyte leakage in normal use, No swelling and no rupture, Safe and reliable explosion-proof exhaust system can make in abnormal use, Eliminate the phenomenon of shell swelling and liquid leakage caused by excessive pressure.



01 寿命长/Long service life

HSD系列产品浮充设计寿命最长可达15年以上，HSG系列和HSS系列产品浮充设计寿命均可达10年以上。

The floating charge design life of HSD series products can reach more than 15 years, While the floating charge design life of HSG series and HSS series products can reach more than 10 years.

02 自放电率低/Low self-discharge rate

在25℃室温下静置28天，自放电率≤3%/月。

28 days at 25℃ let stand at room temperature, Self-discharge ≤ 3%/month.



03 容量充足/Sufficient Capacity

保证100%的容量充足及电压和容量的均一性，无阴极吸附式阀控电池整组电池电压不平衡现象。

Guarantee 100% adequate capacity and the uniformity of voltage and capacity, Without unbalanced voltage of the whole group of cathode adsorption valve-controlled battery.

04 使用温度范围宽/Use temperature scope width

充电范围0~+40℃，放电温度范围-30~+60℃，贮存温度范围-25~+55℃，独特的合金配方和铅膏配方，在低温环境下具有优良的放电性能而在高温环境下具有强耐腐蚀性能。

Charging range 0~+40℃, Discharge temperature range -30~+60℃, Storage temperature range -25~+55℃, Unique formula and lead alloy cream formula, Has good discharge performance in low temperature environment in high temperature environment with strong corrosion resistance.



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HS 小密系列产品规格

HS SMALL SEAL SERIES SPECIFICATION

电池型号 Battery Model	额定电压 Voltage(V)	额定容量(Ah) Nominal Capacity	重量约(kg) Approx Weight	外形尺寸 Dimension(mm)				端子形式 Terminal
				长 Length	宽 Width	高 Height	总高 Total Height	
HS6-1.3	6	1.3	0.31	97	24	52	58	F1
HS6-2.8	6	2.8	0.54	66	33	98	104	F1
HS6-3.2	6	3.2	0.65	134	35	61	67	F1
HS6-4	6	4	0.65	69	47	101	67	F1/F2
HS6-4.2	6	4.2	0.72	69	47	101	107	F1
HS6-4.5	6	4.5	0.7	69	47	101	107	F1
HS6-5	6	5	0.75	69	47	101	107	F1/F2
HS6-5.5	6	5.5	0.8	69	47	101	107	F1/F2
HS6-7	6	7	1.1	151	34	94	100	F1/F2
HS6-7.2	6	7.2	1.15	151	34	94	100	F1/F2
HS6-10	6	10	1.55	151	50	95	101	F1/F2
HS6-12	6	12	1.8	151	50	95	101	F1/F2
HS12-1.3	12	1.3	0.6	97	43	52	58	F1
HS12-2.3	12	2.3	0.97	178	35	61	67	F1
HS12-3.2	12	3.2	1.24	134	67	61	67	F1
HS12-4	12	4	1.3	90	70	101	107	F1/F2
HS12-4.5	12	4.5	1.4	90	70	101	107	F1/F2
HS12-5	12	5	1.7	151	50	95	101	F1/F2
HS12-6.5	12	6.5	1.9	151	65	94	100	F1/F2
HS12-7	12	7	2.04	151	65	94	100	F1/F2
HS12-7.2	12	7.2	2.15	151	65	94	100	F1/F2
HS12-8	12	8	2.35	151	65	94	100	F1/F2
HS12-9	12	9	2.55	151	65	94	100	F1/F2
HS12-10	12	10	2.95	151	98	95	101	F1/F2
HS12-12	12	12	3.6	151	98	95	101	F1/F2
HS12-17	12	17	5	181	77	167	170	T5/T6
HS12-18	12	18	5.2	181	77	167	170	T5/T6
HS12-20	12	20	5.5	181	77	167	170	T5/T6
HS12-24	12	24	7.6	166	175	126	126	T5/T6
HS12-26	12	26	7.8	166	126	175	175	T5/T6
HS12-28	12	28	8.1	166	175	126	126	T5/T6

HSG 中密系列产品规格

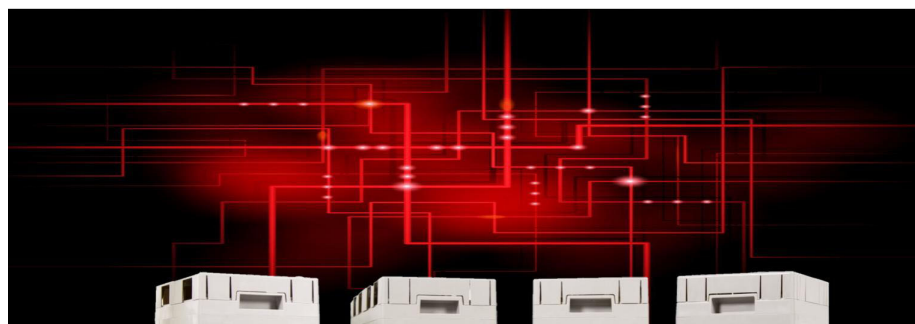
HSG MIDDLE SEAL SERIES SPECIFICATION

电池型号 Battery Model	额定电压 Voltage(V)	额定容量(Ah) Nominal Capacity	重量约(kg) Approx Weight	外形尺寸 Dimension(mm)				端子形式 Terminal
				长 Length	宽 Width	高 Height	总高 Total Height	
HSG6-100	6	100	16.5	194	170	205	210	T14
HSG6-150	6	150	23.5	260	180	247	252	T16
HSG6-180	6	180	29	306	168	222	227	T16
HSG6-200	6	200	30.5	260	180	247	252	T16
HSG6-225	6	225	34.5	243	188	275	275	T16
HSG12-33	12	33	10.2	195	130	159	180	T14
HSG12-38	12	38	12	198	166	171	171	T14
HSG12-40	12	40	13	198	166	171	171	T14
HSG12-45	12	45	13.8	198	166	171	171	T14
HSG12-50	12	50	14.5	229	138	210	235	T14
HSG12-55	12	55	16	229	138	210	235	T14
HSG12-60	12	60	18	350	167	180	185	T14
HSG12-65	12	65	21	350	167	180	182	T14
HSG12-70	12	70	22.5	260	169	210	215	T14
HSG12-80	12	80	24	260	169	210	215	T14
HSG12-100	12	100	30	330	171	215	220	T16
HSG12-100L	12	100	31.5	407	177	225	230	T16
HSG12-120	12	120	35	407	177	225	230	T16
HSG12-134	12	134	38	344	173	280	285	T16
HSG12-150	12	150	42	483	170	240	245	T16
HSG12-200	12	200	60	522	240	220	225	T16
HSG12-250	12	250	72	520	268	220	225	T16



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HSG 2V系列

HSG 2V SERIES SPECIFICATION

电池型号 Battery Model	额定电压 Voltage(V)	额定容量(Ah) Nominal Capacity	重量约(kg) Approx Weight	外形尺寸 Dimension(mm)				端子形式 Terminal
				长 Length	宽 Width	高 Height	总高 Total Height	
HSG2-100Ah	2	100	5.9	171	72	205	225	T16
HSG2-150Ah	2	150	8	172	102	205	225	T20
HSG2-200Ah	2	200	13.5	171	110	325	366	T20
HSG2-300Ah	2	300	18.8	170	150	355	366	T20
HSG2-400Ah	2	400	26.7	210	171	353	363	T20
HSG2-500Ah	2	500	31	241	172	354	365	T20
HSG2-600Ah	2	600	38	301	175	355	365	T20
HSG2-800Ah	2	800	53	410	175	354	365	T20
HSG2-1000Ah	2	1000	63	474	175	351	365	T20
HSG2-1200Ah	2	1200	74	474	175	351	365	T20
HSG2-1500Ah	2	1500	101	400	350	344	382	T20
HSG2-1800Ah	2	1800	120	400	350	344	382	T20
HSG2-2000Ah	2	2000	132	490	350	344	382	T20
HSG2-2500Ah	2	2500	165	710	352	344	382	T20
HSG2-3000Ah	2	3000	195	710	352	344	382	T20

HSF 前置端子系列产品规格

HSF FRONT TERMINAL SERIES SPECIFICATION

电池型号 Battery Model	额定电压 Voltage(V)	额定容量(Ah) Nominal Capacity	重量约(kg) Approx Weight	外形尺寸 Dimension(mm)				端子形式 Terminal
				长 Length	宽 Width	高 Height	总高 Total Height	
HSF12-55	12	55	18	291	106	230	230	T14
HSF12-90	12	90	27	563	114	188	188	T14
HSF12-100	12	100	31.5	508	111	236	236	T16
HSF12-105	12	105	33	508	111	236	236	T16
HSF12-120	12	120	36	410	109	285	293	T16
HSF12-150	12	150	43	565	110	288	297	T16
HSF12-160	12	160	46	565	110	288	297	T16
HSF12-180	12	180	51	560	125	316	316	T16
HSF12-185	12	185	55	560	125	316	316	T16
HSF12-260	12	260	74	694	133	311	311	T16

HSD 深循环系列产品规格

HSD DEEP CYCLE SERIES SPECIFICATION



电池型号 Battery Model	额定电压 Voltage(V)	额定容量(Ah) Nominal Capacity	重量约(kg) Approx Weight	外形尺寸 Dimension(mm)				端子形式 Terminal
				长 Length	宽 Width	高 Height	总高 Total Height	
HSD12-45	12	45	13.5	224	120	175	175	T14
HSD12-55	12	55	17	224	149	178	178	T14
HSD12-60	12	60	20	262	165	170	170	T14
HSD12-80	12	80	26	260	168	211	216	T14
HSD12-100	12	100	34.5	330	171	220	225	T16
HSD12-120	12	120	41.5	407	173	240	240	T16
HSD12-135	12	135	46	340	172	282	288	T16
HSD12-150	12	150	51	484	171	240	245	T16
HSD12-200	12	200	52	522	240	220	225	T16

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HSS 太阳能系列产品规格

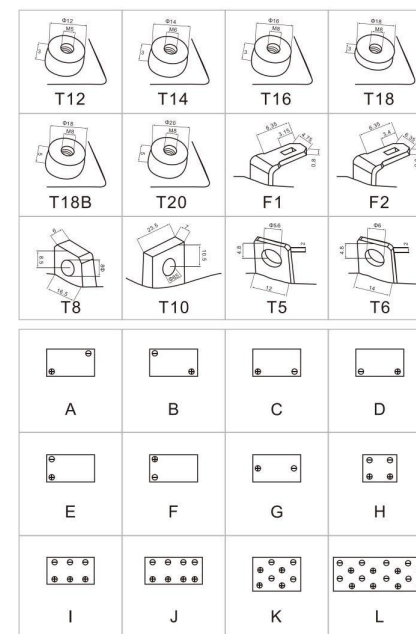
HSS SOLAR SERIES SPECIFICATION

电池型号 Battery Model	额定电压 Voltage(V)	额定容量(Ah) Nominal Capacity	重量约(kg) Approx Weight	外形尺寸 Dimension(mm)				端子形式 Terminal
				长 Length	宽 Width	高 Height	总高 Total Height	
HSS12-18	12	18	5.2	181	77	167	170	T5/T6
HSS12-20	12	20	5.5	181	77	167	170	T5/T6
HSS12-26	12	26	7.8	166	126	175	175	T5/T6
HSS12-28	12	28	8.1	166	175	126	126	T5/T6
HSS12-33	12	33	10.2	195	130	159	180	T14
HSS12-38	12	38	12	198	166	171	171	T14
HSS12-40	12	40	13	198	166	171	171	T14
HSS12-45	12	45	13.8	198	166	171	171	T14
HSS12-50	12	50	14.5	229	138	210	235	T14
HSS12-55	12	55	16	229	138	210	235	T14
HSS12-60	12	60	18	350	167	180	185	T14
HSS12-65	12	65	21	350	167	180	185	T14
HSS12-70	12	70	22.5	260	169	210	215	T14
HSS12-80	12	80	24	260	169	210	215	T14
HSS12-100	12	100	30	330	171	215	220	T16
HSS12-100L	12	100	31.5	407	177	225	230	T16
HSS12-120	12	120	35	407	177	225	230	T16
HSS12-134	12	134	38	344	173	280	285	T16
HSS12-150	12	150	42	483	170	240	245	T16
HSS12-200	12	200	60	522	240	220	225	T16
HSS12-250	12	250	70	520	268	220	225	T16

端子编号/位置

TERMINAL FORM

壳体型号	端子编号	端子位置
12V4Ah	F1/F2	A
12V7Ah	F1/F2	F
12V12Ah	F1/F2	F
12V17Ah	T5	D
12V24Ah	T14	D
12V38Ah	T14	D
12V55Ah	T14	C
12V65Ah	T14	D
12V70Ah	T14	D
12V100Ah	T16	C
12V120Ah	T16	C
12V150Ah	T16	C
12V200Ah	T16	E
12V250Ah	T16	E
2V100Ah	T16	G
2V200Ah	T20	G
2V300Ah	T20	G
2V500Ah	T20	H
2V800Ah	T20	J
2V1000Ah	T20	J
2V1500Ah	T20	K
2V2000Ah	T20	L
2V2500Ah	T20	L
2V3000Ah	T20	L



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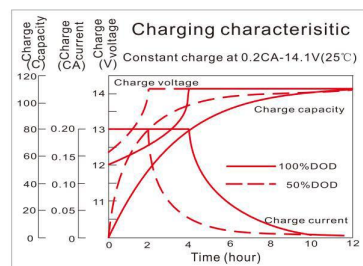
阀控密封式免维护铅酸蓄电池
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PRODUCT CHARACTERISYIC

性能曲线

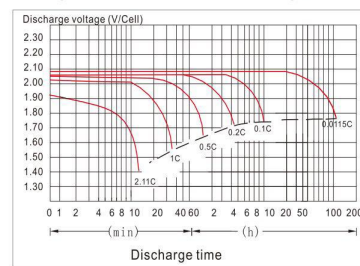
充电特性曲线图

Curves Of Charging Characteristics



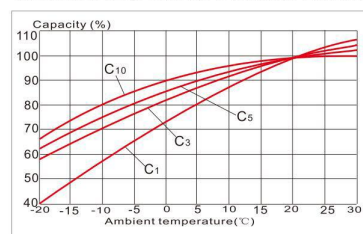
放电特性曲线图

Discharge Characteristics At Different Discharge Rate(20°C)



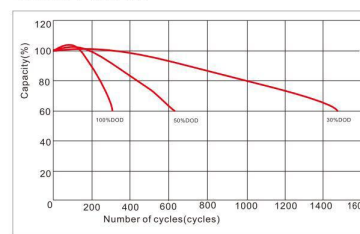
温度对容量的影响

Curves Of Discharge Capacity And Ambient Temperature



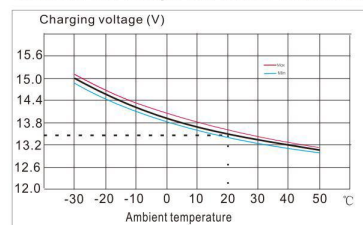
循环寿命与放电深度的关系

Curves Of Cycle Life



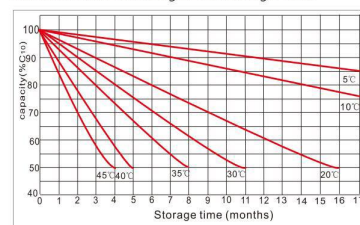
浮充电压与温度影响关系

Curves Of Float Voltage And Ambient Temperature



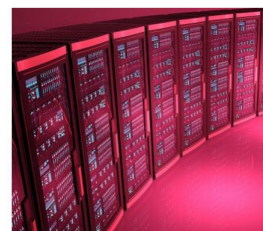
自放电特性

Curves Of Self-discharge And Storage Time

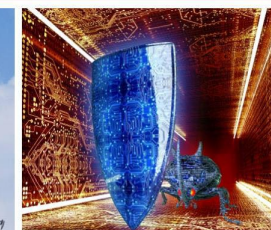


APPLICATION

应用领域



不间断电源系统 (UPS)、通信系统、电力系统、医疗设备、计算机备用电源、数据中心、消防应急电源系统 (EPS)、安防系统、太阳能和风能系统、电动车、自动化控制系统、便携式仪器仪表、电动工具、铁路和船舶等
Uninterrupted Power System, Communication System, Power Station System, Medical Equipment, Computer Backup Power Supply, Internet Data Center, Emergency Power System, Security And Protection Monitoring System, Solar And Wind Powered System, Electric Vehicles, Automatic Control System, Portable Instruments, Electric Instruments, Railways And Ships



PRECAUTIONS

注意事项



01

请根据用途或设计要求，正确选择蓄电池的型号、规格和安装使用方式。

According to the use or design requirements, The correct choice of battery model, Specifications and installation and use mode.

02

不同厂家、不同型号、不同容量、不同性能的蓄电池不能混合使用。

Different manufacturers, Different models, Different capacity, Different performance of the battery can not be mixed.

03

蓄电池充电方式以恒压限流为宜，25℃环境温度条件下：

浮充使用时，充电电压为2.23~2.30V/单格，最大电流不限；循环使用时，充电电压为2.40~2.50V/单格；均充电压为2.35~2.40V/单格；最大电流为0.3C。

3. Battery charging mode with constant voltage current limiting advisable, Under the condition of 25℃ ambient temperature:

When floating charging is used, The charging voltage is 2.23~2.30V/single grid, And the maximum current is not limited; When used in circulation, The charging voltage is 2.40~2.50V/single grid; The average charging voltage is 2.35~2.40V/single grid; The maximum current is 0.3C.

04

使用蓄电池时，根据使用的环境温度变化，充电电压相应调整，浮充使用时温度补偿系数为-3mV/(℃·单格)，即环境温度每升高1℃，充电电压降低-3mV/单格；反之，环境温度每下降1℃，充电电压升高-3mV/单格；循环使用时，为-5mV/(℃·单格)；均充使用时为-4mV/(℃·单格)。

When using the battery, According to the use of environmental temperature change, Charging voltage adjustment accordingly, Floating when using coefficient of temperature compensation for -3mv/℃ (single). Namely environmental temperature rise per 1℃, Charging voltage reduce to -3mv/single; On the other hand, The environment temperature drop per 1℃, Charging voltage rise -3 mv/single; Cycle when used for -5mv/℃, the single; All charge when using for -4mv/℃, the single).

05

蓄电池不可倒置或装入密封容器中使用，需尽量做到通风良好。

The battery should not be inverted or put into a sealed container for use, Should try to do a good ventilation.

06

蓄电池不可靠近热源或在高温的地方使用和贮存，还应避免太阳直射。

The battery should not be close to the source of fire or in a high temperature place to use and storage, But also should avoid direct sunlight.

07

蓄电池不可与有机溶剂接触，以免蓄电池壳体变形或溶解。

The battery should not be in contact with organic solvents, So as to avoid the battery shell deformation or dissolution.

08

蓄电池放电后长时间搁置不使用应及时充电恢复容量；使用过程中不要过放电，以免因蓄电池极板过度硫酸盐化而影响容量和寿命。

Battery discharge after a long time to use should not be timely charging capacity recovery; Do not over discharge in the process of use, So as not to affect the capacity and life of the battery plate due to excessive sulfuric acid.

09

蓄电池应避免过充电，过充电会使安全阀频繁开启，造成蓄电池过量失水而影响寿命。

The battery should avoid overcharging, Overcharging will make the safety valve open frequently, Resulting in excessive water loss of the battery and affect the life.

10

蓄电池极柱端子“+”为正极，“-”为负极，不得接错或短路。

10. Battery pole column terminal "+" is a positive pole, "-" is a negative pole, not wrong or short circuit.

11

安装或使用蓄电池应保持干净、整洁，连接的部件必须牢固，以免因接触不良引起危害。

The installation or use of battery should be kept clean, Clean, Connected parts must be strong, So as not to cause harm due to poor contact.

12

请不要随意丢弃或拆解蓄电池，不要将蓄电池扔入火中，以免引起环境和爆炸等事故。

Please do not discard or disassemble the battery, Do not throw the battery into the fire, So as not to cause environmental and explosion accidents.



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