

VRLA BATTERIES

铅酸电池系列产品画册

MK ENERGY (SHENZHEN) CO., LTD.

迈科新能源(深圳)有限公司

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Lithium Battery Base/ 锂电基地 (Huizhou/惠州):

Building 3, Runhao Industrial Park, No. 9, Fourth Ring South Road, Zhongkai High-tech Industrial Development Zone, Huizhou City, Guangdong Province.

广东省惠州市仲恺高新技术产业开发区四环南路9号润皓产业园3栋

Lead Acid Battery Base/ 铅酸电池基地 (Ganzhou/赣州):

Datang Industrial Park, Xinfeng County, Ganzhou City, Jiangxi Province.

江西省赣州市信丰县大唐工业园

PRODUCT SERIES

产品系列

Lead Acid Battery Series 铅酸电池系列

- MK Series / 小密系列(0.8Ah-28Ah)
- MK Series / 中密系列(33Ah-260Ah)
- MK Series / 大密系列(2V100Ah-3000Ah)
- MK FT Series (Front Terminal) / 前置端子系列
- MK Deep Cycle Series / 深循环系列
- MK Pure GEL Series / 纯胶体系列
- MK HR Series (High Rate) / 高功率系列
- OPzV&OPzS Series / OPzV&OPz 系列
- MK Motorcycle Series / 摩托车电池系列
- DZF&EVF Series (Traction Battery) / DZF&EVF 系列(牵引电池)
- AGM&EFB Start-Stop Series / AGM&EFB 启停系列
- Product Advantages / 产品优势
- Charge-Discharge Curve / 充放电曲线

GROUP PROFILE

集团简介



RESEARCH
研发



MANUFACTURE
生产



MARKETING
营销

Founded in
成立于
2015

It spans
占地
180,000 M²

Of built-up area
建筑面积为
100,000 M²

Founded in 2015 our factory is based in Datang Industrial Park, Xinfeng County, Ganzhou City, Jiangxi Province. It spans 180,000 sq.m, with nearly 100,000 sq.m of built-up area.

工厂成立于2015年,坐落在江西省赣州市信丰县大唐工业园,占地面积180000平方米,建筑面积近100000平方米。



The factory has been recognized as a "National High-Tech Enterprise" and a "Specialized, Sophisticated, and Innovative Enterprise". It holds ISO 9001 Quality Management System Certification, ISO 14001 Environmental Management System Certification, and ISO 45001 Occupational Health and Safety Management Certification. Its products have obtained multiple international certifications, including UL (USA), CE (EU), and TLC (China), with compliance to IEC standards.

被评定为“国家级高新技术企业”和“专精特新企业”,获得ISO9001质量管理体系认证、ISO14001环境管理体系认证, OHSAS18001职业健康安全管理认证, 产品获得美国UL、欧盟CE、泰尔TLC、IEC等多项认证。

Production capacity
产能

3.8 Million KVAh

Employs over
雇佣员工超过

500 Employees

Output value of
产值为

RMB 2 Billion

Products are exported to nearly
产品出口近

100 Countries

With an annual production capacity of 3.8 million KVAh, the factory specializes in R&D and manufacturing of a full range of batteries. We have more than 500 employees, including more than 50 professional technical and management personnel. Operating at full capacity, the factory achieves an annual output value of RMB 2 Billion. Products are exported to nearly 100 countries and regions across Europe, Americas, Asia-Pacific, Africa, and other markets.

工厂年生产规模达到380万KVAH, 专门从事全系列蓄电池研发和生产。现有员工500多名, 其专业技术和管理人员50余名, 满负荷年产值达到20亿元人民币, 产品销售遍布欧美、亚太、非洲等近100个国家和地区。

MK Series[®]
(0.8Ah-28Ah)
小密系列

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Product Characteristics/产品特性

- **Voltage levels/电压等级:**4V, 6V, 12V
- **Design life/设计寿命:**5 years
- **Sealing reaction efficiency/密封反应效率:**≥98%
- **Capacity range (C20)/容量范围 (C20):**0.8Ah – 28Ah
- **Low self-discharge rate/低自放电率:**≤3% per month (at 25°C) / ≤3%/月 (25°C)
- **Operating temperature range/工作温度范围:**-20°C ~ 50°C

Main Application Fields/主要应用领域

- **Safety & Emergency/安全与应急**
Warning systems
报警系统
Emergency lighting equipment
应急照明设备
Power station emergency power systems
电站应急电源系统
 - **Power & Telecom/电力与通信**
UPS/EPS power supplies
UPS/EPS 电源系统
Telecom and power equipment
通信与电力设备
Electric toys, lawn mowers, vacuum cleaners, and other electric tools
电动玩具、割草机、吸尘器及其他电动工具
 - **Industrial & Office/工业与办公**
Various signal systems
各类信号系统
Lighting equipment
照明设备
Office computers, microcomputer processors, and OA equipment
办公电脑、微机处理及办公自动化设备
- **Medical & Measurement/医疗与测量**
Medical instruments
医疗仪器
Portable measuring devices
便携式测量设备
Various range-finding instruments
各类测距仪器
 - **Consumer Electronics/消费电子**
Video cameras
摄像机
Portable power supplies, video players, radios
便携电源、视频播放器、收音机等



Models and Parameters/型号与参数

Model 型号	Nominal Voltage 额定电压 (V)	Capacity 容量 (Ah)	Dimension / 尺寸 (mm)				Terminal 端子	
			Length 长	Width 宽	Height 高	Total Height 总高	Model 型号	Position 位置
MK 4-4	4	4.0	47	47	101	107	T1	D
MK 4.5-4	4	4.5	47	47	101	107	T1	D
MK 6.5-4	4	6.5	70.5	47	116	125	T1	E
MK 1.0-6	6	1.0	50	42	50.5	55	T1	E
MK 1.2-6	6	1.2	97	24	52	58	T1	C
MK 2.8-6	6	2.8	66	34	95	106	T1	E
MK 3-6	6	3.0	48	48	86	86	T1	C
MK 3.2-6	6	3.2	134	34	62	68	T1	C
MK 4-6	6	4.0	70	47	101	107	T1	E
MK 4.5-6	6	4.5	70	47	101	107	T1,T2	E
MK 5-6	6	5.0	70	47	101	107	T1,T2	E
MK 6-6	6	6.0	70	47	106	106.3	T1	E
MK 7-6	6	7.0	151	34	95	101	T1,T2	C
MK 8.5-6	6	8.5	98	57	116	116	T1,T2	F
MK 9-6	6	9.0	151	34	95	101	T2	C
MK 10-6	6	10	151	50	93.5	100	T1,T2	C
MK 14-6	6	14	108	71	139	139	T1,T2	K
MK 1.2-12	12	1.2	97	42.5	51.5	57.5	T1	B
MK 1.9-12	12	1.9	178	36	61	67	T1	C
MK 2.3-12	12	2.3	176	34	60	66	T1	C
MK 2.8-12	12	2.8	70	46	98	104	T1,T2	C
MK 3.2-12	12	3.2	134	67	60.3	66	T1	B
MK 3.5-12	12	3.5	90	70.4	100.5	100.5	T1	L
MK 4-12	12	4.0	90	70	100	106	T1,T2	L
MK 4.5-12	12	4.5	90	70	100	106	T1,T2	L
MK 5-12	12	5.0	90	70	100	106	T1,T2	L
MK 6.5-12	12	6.5	151	65	94	100	T1,T2	A
MK 7-12	12	7.0	151	65	94	100	T1,T2	A
MK 7.2-12	12	7.2	151	65	94	100	T1,T2	B
MK 7.5-12	12	7.5	151	65	94	100	T1,T2	A
MK 8-12	12	8.0	151	65	94	100	T1,T2	A
MK 9-12	12	9.0	151	65	94	100	T1,T2	A
MK 10-12	12	10	151	98.5	95	101	T1/T2	A
MK 12-12	12	12	151	98.5	95	101	T1/T2	A
MK 15-12	12	15	181	76.5	169	169	M5	D
MK 17-12	12	17	181	77	168	168	M5	D
MK 18-12	12	18	181	77	168	168	M6	D
MK 20-12	12	20	181	77	168	168	T2 /M5/M5	D
MK 22-12	12	22	181	77	168	168	M6/M5	D
MK 24-12	12	24	166	175	127	127	M6	D
MK 25-12	12	25	166	175	127	127	M6	B
MK 28-12	12	28	166	125	175	175	M6	D

MK Series

(33Ah-260Ah)

中密系列

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Product Characteristics/产品特性

- **Voltage levels/电压等级:**6V, 12V
- **Design life/设计寿命:** 10 years
- **Sealing reaction efficiency/密封反应效率:** ≥98%
- **Capacity range (C10)/容量范围 (C10) :** 33Ah-260Ah
- **Low self-discharge rate/低自放电率:** ≤3%/month (25℃)
- **Operating temperature range/工作温度范围:** -20℃~50℃

Main Application Fields/主要应用领域

- **Computer system: UPS, etc.**
计算机系统:UPS不间断电源等。
- **Station and dock: signal light, instrument, etc.**
车站码头:信号灯、仪器仪表等。
- **User system: monitoring, interphone, emergency lighting, elevator, etc.**
用户系统:监控、对讲系统、应急照明、电梯等。
- **Telecom and electricity: post and telecom, power station, power transmission, etc.**
通信电力:邮电通信、发电站、电力输送等。
- **Underground mine: miner's lamp, transport vehicle, UPS power supply, lighting system.**
地下矿井:矿灯、运输车辆、UPS电源、照明系统。
- **Tourism and entertainment: electric toy, signal light, instrument, emergency light, etc.**
旅游娱乐:电动玩具、信号灯、仪器仪表、应急灯等。
- **Aerospace and navigation: ship, fishing boat, fishing light, beacon light, precision instrument, etc.**
航天航海:船舶、渔船、渔灯、航标灯、精密仪器等。
- **Bank and school, shopping mall and hospital: UPS power supply, precision instrument, emergency light, etc.**
银行学校、商场医院:UPS电源、精密仪器、应急灯等。
- **National defense and military industry: aircraft, tank, armored vehicle, artillery, mobile power supply, etc.**
国防军工:飞机、坦克、装甲车、火炮、移动电源等。



Models and Parameters/型号与参数

Model 型号	Nominal Voltage 额定电压 (V)	Capacity 容量 (Ah)	Dimension / 尺寸 (mm)				Terminal 端子	
			Length 长	Width 宽	Height 高	Total Height 总高	Model 型号	Position 位置
MK 180-6	6	180	307	169	222	225	M8	B
MK 200-6	6	200	307	169	222	225	M8	F
MK 225-6	6	225	260	180	248	251	M6	F
MK 32-12	12	32	198	131	155	177	M6	C
MK 35-12	12	35	198	131	155	164	M8	C
MK 36-12	12	36	198	131	155	170	M6	C
MK 38-12	12	38	196	165	175	182	M6	D
MK 40-12	12	40	196	165	175	182	M6	D
MK 45-12	12	50	197	166	169	169	M6	D
MK 50-12	12	50	196	165	175	182	M6	D
MK 55-12	12	55	229	136	210	232	M8.5	C
MK 60-12	12	60	261	167	184	188	M6	D
MK 65-12	12	65	351	166	173	184	M6	D
MK 70-12	12	70	259	168	210	232	M8	C
MK 75-12	12	75	259	168	210	232	M8	C
MK 80-12	12	80	351	166	176	176	M6	D
MK 90-12	12	90	306	169	208	232	M8	C
MK 100-12	12	100	332	175	215	223	M8/M6	C
MK 110-12	12	110	332	175	215	243	M8.5	C
MK 120-12	12	120	408	174	233	240	M6/M8/M10	C
MK 134-12	12	134	341	173	283	285	M6	C
MK 150-12	12	150	483	170	242	242	M6/M8	C
MK 180-12	12	180	530	209	214	240	M8	B
MK 200-12	12	200	530	209	214	240	M8	B
MK 250-12	12	250	520	268	220	245	M8	B
MK 260-12	12	260	520	268	220	245	M8	B

MK Series[®]
(2V100Ah-3000Ah)
大密系列

VRLA
BATTERIES



Product Characteristics/产品特性

- Voltage levels/电压等级: 2V
- Design life/设计寿命: More than 12 years
- Sealing reaction efficiency/密封反应效率: ≥98%
- Capacity range (C10)/容量范围(C10): 100Ah-3000Ah
- Low self-discharge rate/低自放电率: ≤3%/month (25°C)
- Operating temperature range/工作温度范围: -20°C~50°C

Main Application Fields/主要应用领域

- Fire alarm system.
火灾报警系统。
- Substation switch control.
变电站开关控制。
- Telecom backup power supply.
电信后备电源。
- Solar energy, wind energy system.
太阳能、风能系统。
- Network lighting node, mobile station.
网络照明节点、移动基站
- Power plant, hydropower station spare power.
电厂、水电站备用电源。



Models and Parameters/型号与参数

Model 型号	Nominal Voltage 额定电压 (V)	Capacity 容量 (Ah)	Dimension / 尺寸 (mm)				Terminal 端子	
			Length 长	Width 宽	Height 高	Total Height 总高	Model 型号	Position 位置
MK100-2	2	100	171	72	206	224	M8	G
MK120-2	2	120	171	72	206	224	M8	G
MK150-2	2	150	171	101	206	216	M8	G
MK200-2	2	200	171	106	332	365	M8	G
MK300-2	2	300	170	150	332	365	M8	G
MK400-2	2	400	210	171	353	367	M8	H
MK500-2	2	500	243	173	330	364	M8	H
MK600-2	2	600	304	175	331	366	M8	H
MK800-2	2	800	410	175	335	365	M8	I
MK1000-2	2	1000	475	171	331	364	M8	I
MK1200-2	2	1200	475	171	331	364	M8	I
MK1500-2	2	1500	401	351	378	378	M8	I
MK2000-2	2	2000	490	350	345	345	M8	I
MK3000-2	2	3000	712	353	341	341	M8	I

FT SeriesTM

(Front Terminal)

前置端子系列

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BATTERIES



Product Characteristics/产品特性

- **Voltage levels/电压等级:** 12V
- **Design life/设计寿命:** More than 12 years
- **Sealing reaction efficiency/密封反应效率:** ≥98%
- **Capacity range (C10)/容量范围 (C10):** 50Ah-200Ah
- **Low self-discharge rate/低自放电率:** ≤3%/month (25°C)
- **Operating temperature range/工作温度范围:** -20°C~50°C

Main Application Fields/主要应用领域

- **Standby power such as UPS/EPS.**
备用电源 (如UPS/EPS不间断电源)。
- **Dedicated or local area network power system.**
专用或局域网络电力系统。
- **Access network device for communication system.**
通信系统接入网络设备。
- **Applicable to 19inch, 23inch standard power cabinet.**
适用于19英寸、23英寸标准电源机柜。



Models and Parameters/型号与参数

Model 型号	Nominal Voltage 额定电压 (V)	Capacity 容量 (Ah)	Dimension / 尺寸 (mm)				Terminal 端子	
			Length 长	Width 宽	Height 高	Total Height 总高	Model 型号	Position 位置
MF 50-12	12	50	277	106	222	222	M6	B
MF100-12	12	100	397	110	286	286	M6	B
MF105-12	12	105	507	110	238	238	M6	B
MF120-12	12	120	551	110	239	239	M8	A
MF150-12	12	150	551	110	288	288	M8	B
MF170-12	12	170	560	125	317	317	M8	B
MF180-12	12	180	560	125	317	317	M8	B
MF190-12	12	190	560	125	317	317	M8	B
MF200-12	12	200	560	125	317	317	M8	B

Deep Cycle Series
深循环系列

VRLA
BATTERIES



Product Characteristics/产品特性

- Voltage levels/电压等级: 12V, 2V
- Design life/设计寿命: More than 12 years
- Sealing reaction efficiency/密封反应效率: $\geq 98\%$
- Capacity range/容量范围: 17Ah-3000Ah
- Low self-discharge rate/低自放电率: $\leq 3\%$ /month (25°C)
- Operating temperature range/工作温度范围: -30°C~60°C

Main Application Fields/主要应用领域

- Renewable energy storage systems.
可再生能源存储系统。
- Wind energy storage system.
风能储能系统。
- Solar photovoltaic energy storage system.
太阳能光伏储能系统。



Models and Parameters/型号与参数

Model 型号	Nominal Voltage 额定电压 (V)	Capacity 容量 (Ah)	Dimension / 尺寸 (mm)				Terminal 端子	
			Length 长	Width 宽	Height 高	Total Height 总高	Model 型号	Position 位置
MD200-6	6	200	307	169	214	225	M8	F
MD225-6	6	225	260	180	248	251	M6	F
MD17-12	12	17	181	77	168	168	M5	D
MD18-12	12	18	181	77	168	168	M6	D
MD20-12	12	20	181	77	168	168	T2 / M5	D
MD22-12	12	22	181	77	168	168	M6/M5	D
MD24-12	12	24	166	175	127	127	M6	D
MD26-12	12	26	166	125	175	175	M6	D
MD28-12	12	28	166	125	175	175	M6	D
MD35-12	12	35	198	131	155	170	M6	C
MD36-12	12	36	198	131	155	170	M6	C
MD38-12	12	38	196	165	175	182	M6	D
MD40-12	12	40	196	165	175	182	M6	D
MD50-12	12	50	197	166	169	175	M6	D
MD55-12	12	55	229	136	210	232	M8	D
MD60-12	12	60	261	167	184	188	M6	D
MD65-12	12	65	351	166	173	184	M6	C
MD70-12	12	70	259	168	210	232	M8	C
MD75-12	12	75	259	168	210	232	M8	C
MD80-12	12	80	351	166	176	176	M6	D
MD90-12	12	90	306	169	208	232	M8	C
MD100-12	12	100	332	175	215	243	M8/M6	C
MD110-12	12	110	332	175	215	243	M8	C
MD120-12	12	120	408	174	233	240	M6/M8	C
MD134-12	12	134	341	173	283	285	M6	C
MD150-12	12	150	483	170	242	242	M6/M8	C
MD180-12	12	180	530	209	214	240	M8	B
MD200-12	12	200	530	209	214	240	M8	B
MD250-12	12	250	520	268	220	245	M8	B
MD100-2	2	100	171	72	206	224	M8	G
MD120-2	2	120	171	72	206	224	M8	G
MD150-2	2	150	171	101	206	206	M8	G
MD200-2	2	200	171	106	332	365	M8	G

Pure GEL Series[®]

纯胶体系列

VRLA

BATTERIES



Product Characteristics/产品特性

- **Voltage levels/电压等级:** 2V, 6V, 12V
- **Design life/设计寿命:** More than 15 years
- **Sealing reaction efficiency/密封反应效率:** ≥98%
- **Capacity range (C10)/容量范围 (C10):** 38Ah-500Ah
- **Low self-discharge rate/低自放电率:** ≤3%/month (25°C)
- **Operating temperature range/工作温度范围:** -30°C~60°C

Main Application Fields/主要应用领域

- **Various recycling.**
各类循环利用系统。
- **Computer system: UPS, etc.**
计算机系统: UPS不间断电源等。
- **Aerospace and navigation: ship, fishing boat, fish light, beacon light, etc.**
航天航海: 船舶、渔船、渔灯、航标灯等。
- **Tourism and entertainment: electric toy, signal light, instrument, emergency light.**
旅游娱乐: 电动玩具、信号灯、仪器仪表、应急灯。
- **Telecom and electricity: post and telecom, power station, power transmission, etc.**
通信电力: 邮电通信、发电站、电力传输等。
- **Underground mine: miner's lamp, transport vehicle, UPS power supply, lighting system, etc.**
地下矿井: 矿灯、运输车辆、UPS电源、照明系统等。
- **Natural energy system: solar energy, wind energy, geothermal energy, flood energy system, etc.**
自然能源系统: 太阳能、风能、地热能、潮汐能系统等。
- **Bank and school, shopping mall and hospital: UPS power supply, precision instrument, emergency light, etc.**
银行学校、商场医院: UPS电源、精密仪器、应急灯等。



Models and Parameters/型号与参数

Model 型号	Nominal Voltage 额定电压 (V)	Capacity 容量 (Ah)	Dimension / 尺寸 (mm)				Terminal 端子	
			Length 长	Width 宽	Height 高	Total Height 总高	Model 型号	Position 位置
MG150-6	6	150	260	180	269	269	M8	F
MG38-12	12	38	196	165	175	182	M6	D
MG55-12	12	55	229	136	210	232	M6	C
MG70-12	12	70	259	168	210	232	M6	C
MG90-12	12	90	306	169	208	212	M6	C
MG100-12	12	100	332	175	215	243	M6	C
MG150-12	12	150	483	170	242	242	M8	C
MG180-12	12	180	530	209	214	240	M8	B
MG200-12	12	200	522	240	219	223	M8	B
MG250-12	12	250	520	268	220	245	M8	B
MG500-2	2	500	241	171	331	364	M8	G

HR Series[®]
(High Rate)
高功率系列

VRLA
BATTERIES



Product Characteristics/产品特性

- Voltage levels/电压等级: 12V
- Design life/设计寿命: More than 15 years
- Sealing reaction efficiency/密封反应效率: ≥98%
- Capacity range (C10)/容量范围(C10): 28W-870W
- Low self-discharge rate/低自放电率: ≤3%/month (25°C)
- Operating temperature range/工作温度范围: -20°C~50°C

Main Application Fields/主要应用领域

- Warning system.
报警系统。
- Medical instruments.
医疗设备。
- UPS/EPS power supply.
UPS/EPS电源系统。
- Power station emergency system.
电站应急系统。
- Various range finding instruments.
各类测距仪器。
- Computer processor and OA equipment.
计算机处理器及办公自动化设备。
- Communication and power equipment.
通信及电力设备。



Models and Parameters/型号与参数

Model 型号	5min(w) 5分钟(瓦)	10min(w) 10分钟(瓦)	15min(w) 15分钟(瓦)	Dimension / 尺寸(mm)				Terminal 端子
				Length 长	Width 宽	Height 高	Total Height 总高	
MH12-28W	53	36	28	151	65	94	100	T2
MH12-36W	71	49	36	151	65	94	100	T2
MH12-75W	122	92.6	75	181	77	168	168	M6
MH12-110W	176.7	134.2	110	166	175	127	127	M6
MH12-145W	202.9	159.9	145	196	131	155	166	M6
MH12-165W	242.4	191.2	165	197	165	170	170	M6
MH12-225W	333	262	225	229	136	210	215	M6
MH12-255W	390	308	255	348	167	177	177	M6
MH12-295W	450	355	295	260	168	211	216	M6
MH12-360W	555	438	360	306	169	208	214	M8
MH12-400W	604	477	400	332	175	215	219	M8
MH12-455W	714	564	455	409	177	224	224	M8
MH12-560W	858	694	560	480	170	242	242	M8
MH12-590W	868	702	590	530	209	214	219	M8
MH12-620W	1010	785	620	530	209	214	219	M8
MH12-700W	1140	890	700	522	240	219	223	M8
MH12-760W	1230	954	760	522	240	219	223	M8
MH12-780W	1245	960	780	522	240	219	223	M8
MH12-800W	1300	1015	800	522	240	219	223	M8
MH12-870W	1368	1073	870	520	268	220	224	M8

OPzV&OPzS Series[®]

OPzV&OPzS系列

VRLA

BATTERIES



Product Characteristics/产品特性

OPzV and OPzS series batteries designed by advanced technology of tubular plates, PVC separators and pure gel.

采用管式极板、PVC隔板和纯胶体电解质的先进技术设计的OPzV和OPzS系列蓄电池。

- **Voltage levels/电压等级:** 2V/12V
- **Design life/设计寿命:** More than 20 years
- **Sealing reaction efficiency/密封反应效率:** ≥98%
- **Capacity range (C10)/容量范围 (C10):** 100Ah~3000Ah
- **Low self-discharge rate/低自放电率:** ≤3%/month (25°C)
- **Operating temperature range/工作温度范围:** -30°C~60°C

Main Application Fields/主要应用领域

- **Computer system: UPS, etc.**
计算机系统: UPS不间断电源等。
- **Solar photovoltaic storage system**
太阳能光伏储能系统。
- **Station and dock: signal light, instrument, etc.**
车站码头: 信号灯、仪器仪表等。
- **Bank, school, mall, hospital: UPS, instruments, emergency lights, etc.**
银行学校、商场医院: UPS电源、精密仪器、应急照明等。
- **Underground mine: miner's lamp, transport vehicle, UPS power supply, lighting system, etc.**
地下矿井: 矿灯、运输车辆、UPS电源、照明系统等。
- **Telecom and electricity: post and telecom, power station, power transmission, etc.**
通信电力: 邮电通信、发电站、电力传输等。



Models and Parameters/型号与参数

Model 型号	Nominal Voltage 额定电压 (V)	Capacity 容量 (Ah)	Dimension / 尺寸 (mm)			Terminal 端子	
			Length 长	Width 宽	Height 高	Total Height 总高	Model 型号
OPzV12-100	12	100	470	173	208	233	M8
OPzV12-150	12	150	532	207	210	215	M8
OPzV12-200	12	200	522	270	220	243	M8
OPzV2-100	2	100	103	206	354	390	M8
OPzV2-150	2	150	103	206	354	390	M8
OPzV2-200	2	200	103	206	354	390	M8
OPzV2-250	2	250	124	206	354	390	M8
OPzV2-300	2	300	145	206	354	390	M8
OPzV2-350	2	350	124	206	471	506	M8
OPzV2-420	2	420	145	206	471	506	M8
OPzV2-500	2	500	166	206	471	506	M8
OPzV2-600	2	600	145	206	646	681	M8
OPzV2-700	2	700	254	210	471	506	M8
OPzV2-770	2	770	254	210	471	506	M8
OPzV2-800	2	800	191	210	646	681	M8
OPzV2-1000	2	1000	233	210	646	681	M8
OPzV2-1200	2	1200	275	210	646	681	M8
OPzV2-1500	2	1500	275	210	796	831	M8
OPzV2-2000	2	2000	399	212	772	807	M8
OPzV2-2250	2	2250	487	212	772	807	M8
OPzV2-2500	2	2500	487	212	772	807	M8
OPzV2-3000	2	3000	576	212	772	807	M8
OPzS2-100	2	100	103	206	354	409	M8
OPzS2-150	2	150	103	206	354	409	M8
OPzS2-200	2	200	103	206	354	409	M8
OPzS2-250	2	250	124	206	354	409	M8
OPzS2-300	2	300	145	206	354	409	M8
OPzS2-350	2	350	124	206	470	525	M8
OPzS2-420	2	420	145	206	470	525	M8
OPzS2-500	2	500	166	206	470	525	M8
OPzS2-600	2	600	145	206	645	700	M8
OPzS2-800	2	800	191	210	645	700	M8
OPzS2-1000	2	1000	233	210	645	700	M8
OPzS2-1200	2	1200	275	210	645	700	M8
OPzS2-1500	2	1500	275	210	795	850	M8
OPzS2-2000	2	2000	399	210	771	826	M8
OPzS2-2500	2	2500	487	212	771	826	M8
OPzS2-3000	2	3000	576	212	771	826	M8

Motorcycle Series
摩托车电池系列



VRLA
BATTERIES

Product Characteristics/产品特性

- Voltage levels/电压等级: 12V
- Design life/设计寿命: More than 5 years
- Sealing reaction efficiency/密封反应效率: ≥98%
- Low self-discharge rate/低自放电率: ≤3%/month (25°C)
- Operating temperature range/工作温度范围: -20°C~50°C

Main Application Fields/主要应用领域

- Motorcycle
摩托车
- Dune buggy
沙滩车
- Snowmobile
雪地摩托



Models and Parameters/型号与参数

Model 型号	Nominal Voltage 额定电压 (V)	Capacity 容量 (Ah)	Dimension / 尺寸 (mm)				Weight (kg) 重量 (kg)
			Length 长	Width 宽	Height 高	Total Height 总高	
MC 3.95-12	12	3.95	113	70	89	89	1.30
MC 4-12	12	4	113	70	89	89	1.30
MC 5-12	12	5	113	70	109	109	1.78
MC 5.3-12	12	5.3	113	70	109	109	1.78
MC 6.5-12	12	6.5	139	66	102	102	2.00
MC 7-12	12	7	114	69	131	131	2.16
MC 8.6-12	12	8.6	151	87	94	94	2.45
MC 9-12	12	9	136	76	133	133	2.50
MC 11.5-12	12	11.5	150	87	105	105	2.75
MC 12-12	12	12	151	87	130	130	3.58
MC 13.5-12	12	13.5	151	87	130	130	3.58
MC 14-12	12	14	150	87	161	161	4.40
MC 14.2-12	12	14.2	151	87	145	145	4.00
MC 20-12	12	20	175	100	157	157	6.20
MC 21-12	12	21	205	87	162	162	5.80
MC 30-12	12	30	177	127	168	168	9.20

DZF/EVF Series[®]
(Traction Power Battery)
DZF/EVF 系列(牵引电池)

VRLA
BATTERIES



Product Characteristics/产品特性

- Voltage levels/电压等级: 6V, 8V, 12V
- Design life/设计寿命: More than 5 years
- Sealing reaction efficiency/密封反应效率: ≥98%
- Low self-discharge rate/低自放电率: ≤3%/month (25°C)
- Operating temperature range/工作温度范围: -20°C~50°C

Main Application Fields/主要应用领域

- Golf cart
高尔夫球车
- Electric vehicle
电动车辆
- Electric wheelchair
电动轮椅
- Electric tricycle
电动三轮车
- Electric forklift
电动叉车



Models and Parameters/型号与参数

Model 型号	Nominal Voltage 额定电压 (V)	Capacity 容量 (Ah)	Dimension / 尺寸 (mm)				Terminal 端子
			Length 长	Width 宽	Height 高	Total Height 总高	
6-DZF-12	12	12	151	99	98	102	M5
6-DZF-12.8	12	12.8	151	99	98	102	M5
6-DZF-13	12	13	151	99	98	102	M5
6-DZF-14	12	14	151	99	98	102	M5
6-DZF-21	12	21	181	77	170	172	M5
6-DZF-21.8	12	21.8	181	77	170	172	M5
6-DZF-22.8	12	22.8	181	77	170	172	M5
6-DZF-24	12	24	181	77	170	172	M5
6-DZF-24	12	24	175	166	125	128	M5
6-DZF-28	12	28	318	80	129	130	M5
3-EVF-200	6	220	260	180	269	275	M8
3-EVF-300	6	300	296	178	346	368	M8
3-EVF-400	6	400	296	178	404	426	M8
4-EVF-150	8	150	260	180	280	280	M8
6-EVF-32	12	32	220	93	175	175	M5
6-EVF-35	12	35	267	77	170	172	M5
6-EVF-38	12	38	222	106	175	175	M5
6-EVF-41	12	41	224	121	174	174	M5
6-EVF-45	12	45	223	120	175	177	M5
6-EVF-48	12	48	223	120	175	177	M5
6-EVF-52	12	52	223	135	176	178	M5
6-EVF-58	12	58	223	135	176	178	M5
6-EVF-60	12	60	260	150	178	178	M5
6-EVF-65	12	58	260	151	178	178	M5
6-EVF-70	12	70	260	168	210	211	M6
6-EVF-80	12	80	260	168	210	211	M6
6-EVF-100	12	100	332	175	215	219	M8
6-EVF-105	12	105	332	175	215	219	M8
6-EVF-108	12	108	332	175	215	219	M8
6-EVF-110	12	110	332	175	215	219	M8
6-EVF-120	12	120	406	173	240	240	M8
6-EVF-150	12	150	483	171	240	240	M8

AGM & EFBTM
Start-Stop Series
AGM & EFB 启停系列

VRLA
BATTERIES



Product Characteristics/产品特性

- Voltage levels/电压等级: 12V
- Non-spillable construction/防漏结构
- Sealed and maintenance-free/密封免维护
- Deep cycle technology: can be used as supply and starter battery/深循环技术: 兼具供电和启动功能
- 3 Times cycle life compared to conventional battery/循环寿命是普通电池的3倍
- Wider temperature range for application: -30°C-70°C/更宽应用温度范围: -30°C至70°C
- 99.997% Purity lead material: low internal resistance and low self-discharge/99.997%纯度铅材料: 低内阻和低自放电

Main Application Fields/主要应用领域

- Automotive start-stop/汽车启停系统
- Hybrid/electric vehicles/混合动力/电动汽车
- Public transportation/公共交通系统



Models and Parameters/型号与参数

AGM Start-Stop SeriesAGM / 启停系列

Model 型号	European Standard 欧标	Nominal Voltage 额定电压 (V)	Capacity 容量 (Ah)	Dimension / 尺寸 (mm)				Terminal 端子
				Length 长	Width 宽	Height 高	Total Height 总高	
6-AGM-60	LN2/H5	12	60	242	175	190	190	T2
6-AGM-70	LN3/H6	12	70	278	175	190	190	T2
6-AGM-80	LN4/H7	12	80	315	175	190	190	T2
6-AGM-92	LN5/H8	12	92	352	175	190	190	T2
6-AGM-105	LN6/H9	12	105	394	175	190	190	T2

EFB Start-Stop Series / EFB 启停系列

6-EFB-60	/	12	60	260	173	201	225	T2
6-EFB-60B	/	12	60	232	173	201	225	T2
6-EFB-64	/	12	64	242	175	190	190	T2
6-EFB-70	/	12	70	278	175	190	190	T2
6-EFB-75	/	12	75	315	175	175	175	T2
6-EFB-80	/	12	80	315	175	190	190	T2

Product Advantages

产品优势

Longer Life / 更长寿命

High-strength tight assembly process improves battery tightness, prevents active material from falling off, and extends battery service life. Low acid specific gravity electrolyte enhances charge acceptance and deep discharge cycle capability. Additional acid design ensures no lifespan reduction due to electrolyte depletion. The GFM series battery achieves over 15 years of floating charge life at 25°C.

高强度紧装配工艺提升电池密封性,防止活性物质脱落,延长使用寿命。低酸比重电解液提升充电接受能力和深循环性能。富液量设计确保不会因电解液耗尽而缩短寿命。GFM系列电池在25°C下浮充寿命可达15年以上。

High Rate Discharging Excellent Performance / 优异的高倍率放电性能

The high-strength assembly process reduces internal resistance, delivering 20% better high-current discharge performance than conventional batteries.

高强度装配工艺降低内阻,大电流放电性能比普通电池提升20%。

Low Self-Discharging / 低自放电

Using high-purity materials and special processes, our batteries can be stored at room temperature for over 6 months without recharging.

采用高纯度原料和特殊工艺,常温储存半年以上无需充电。

Simple Maintenance / 维护简便

Special oxygen recombination design prevents electrolyte water loss during charging. Virtually no water replenishment needed throughout service life.

采用特殊氧循环设计,有效克服充电过程中的电解液失水现象。使用过程中电解液水分几乎不减少,因此无需加水维护。

High Security / 高安全性

Integrated safety valve effectively isolates external sparks, eliminating explosion hazards.

内置特殊安全阀,有效隔离外部火花,杜绝爆炸风险。

Simple Installation / 安装灵活

Vertical, horizontal or stacked installation options with compact footprint and flexible arrangement.

支持立式、卧式及层叠安装,占地面积小,布局灵活。

Clean & Environmentally Friendly / 清洁环保

Zero acid mist emission, non-corrosive to surroundings. Suitable for office/equipment rooms without anti-corrosion requirements.

使用过程不产生酸雾,无环境污染,可直接安装于办公区或设备间,无需防腐处理。

Charge-Discharge Curve

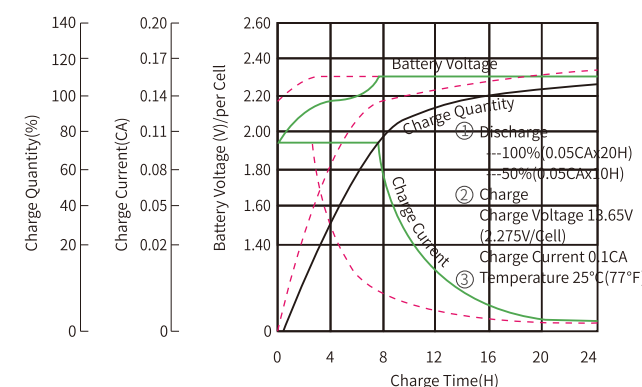
充放电曲线

Lead Acid Series Diagram

铅酸系列图示

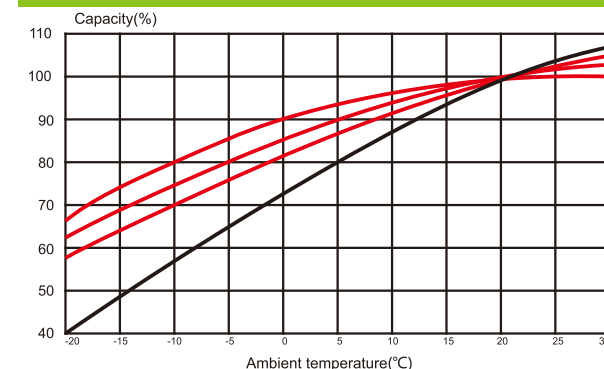
Charging Characteristics

充电特性



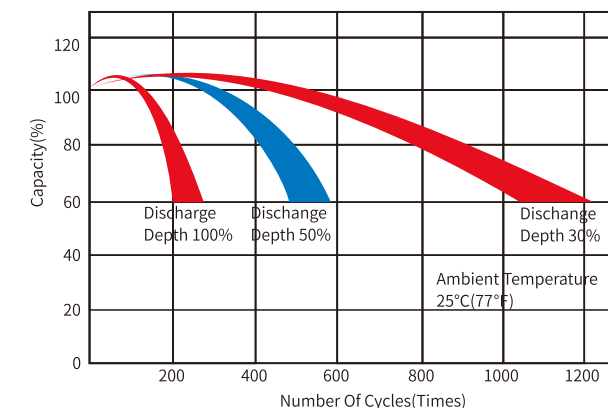
Curves Of Discharge Capacity And Ambient Temperature

放电容量与环境温度曲线



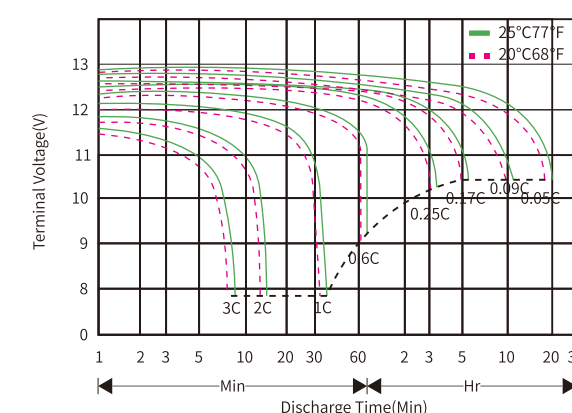
Battery Cycle Life

电池循环寿命



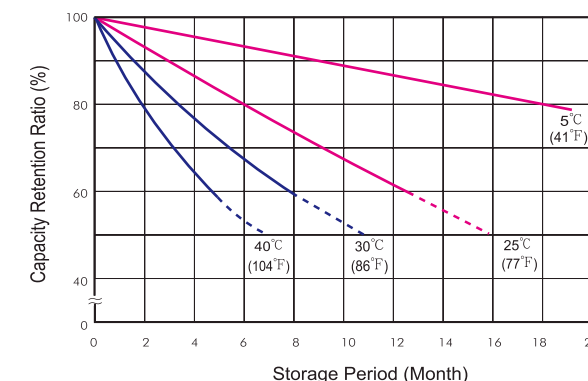
Terminal Voltage And Discharge Time

端电压与放电时间



Capacity Retention Characteristic

容量保持特性



Battery Voltage And Charge Time For Cycle Use

循环使用时的电池电压与充电时间

