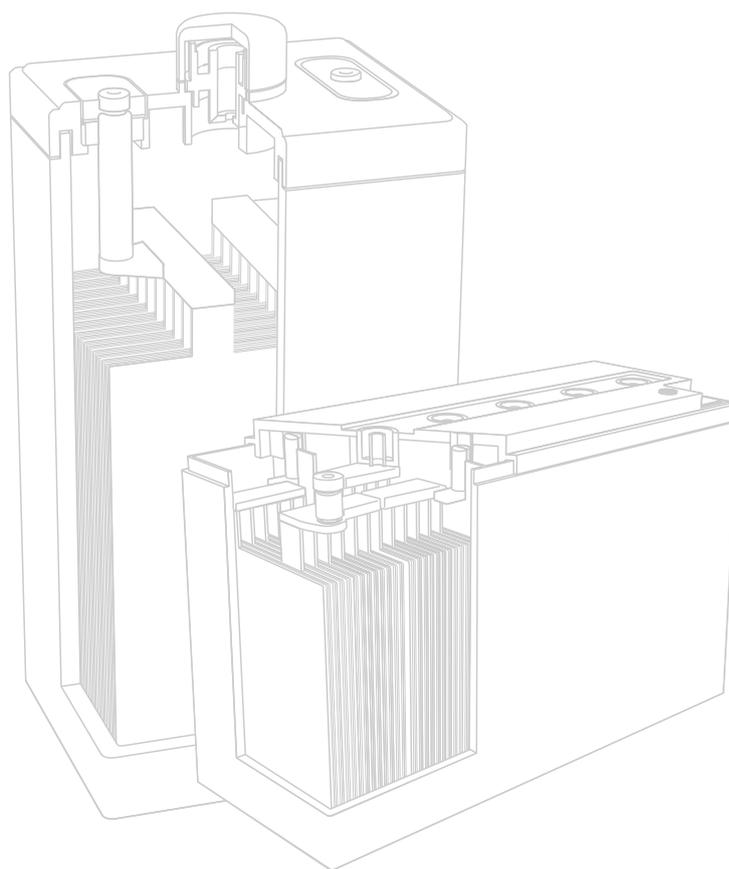




## AGM & GEL Battery

VISION Valve Regulated  
Sealed Lead Acid Batteries

威神·阀控式免维护铅酸蓄电池



## COMPANY PROFILE

VISION, one of the most famous VRLA battery brand in the world, which is dedicated to serve the the higher fields of application. The products covers AGM, GEL, communications, Europe, Electric car etc. total five series, more than 400 models.

As early as in the early-1990s, VISION batteries have been applied in the communication terminals in European and American developed countries, it's mainly used in communication, electric power, photovoltaic, UPS, lighting and power cell industries.

VISION set up many R&D centers and production bases all over the world, including Iran, India, Vietnam and China mainland, etc. Thereinto, Shenzhen Center Power Tech. Co., Ltd. which is one of the manufacturer in China, covers an area of 180,000<sup>2</sup>, owns 18 production lines, total 2500 employees works, its annual value of production is nearly 200 million.

Nowadays, products and solutions of VISION have been applied in more than 100 countries and areas. The worldwide sales&service networks not only directly serve the higher fields of application, but also being one of the most important business partner which cooperate with the top 10 electric power source operators.

## 公司简介

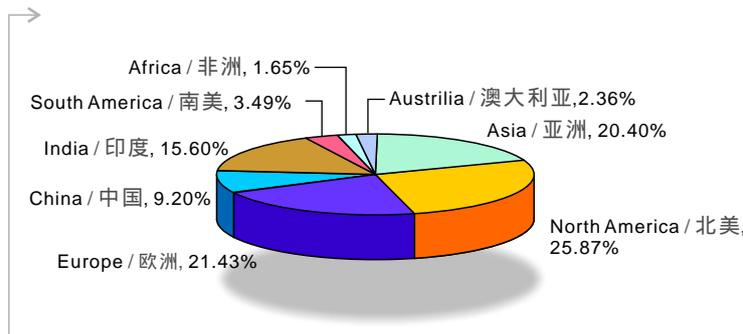
“VISION”（威神）是全球阀控式密封铅酸蓄电池知名品牌之一，致力于服务世界蓄电池应用的高端领域。产品覆盖AGM、深循环、胶体三大品类，涵盖通讯系列、欧洲系列、新能源系列、动力系列以及户外系列，已形成四百多个规格型号。

早在上个世纪九十年代初期，VISION多个规格产品就已应用于欧洲通讯终端，现在更是被广泛应用到欧、美洲通讯、电力、光伏、不间断电源、照明以及动力电池等行业和市场。

VISION电池已在全球包括伊朗、印度、越南、中国大陆等多个地区设立研发、生产基地；VISION电池中国制造商--深圳市雄韬电源科技有限公司占地180,000平方米，员工2500多人，十八条生产线，年产值近2亿美元。

目前，VISION（威神）电池的产品和解决方案已经应用于全球100多个国家和地区，遍布全世界的销售服务网点，直接服务世界电池应用的高端区域及领域，并成为世界前10强电源运营商最重要的合作伙伴之一。

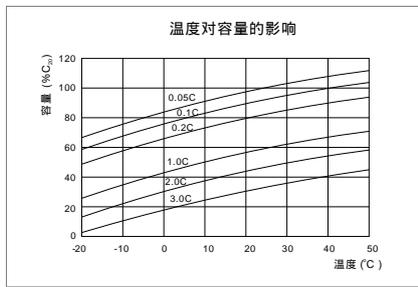
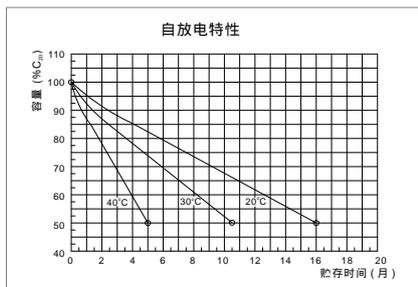
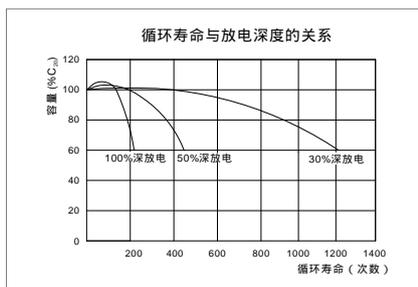
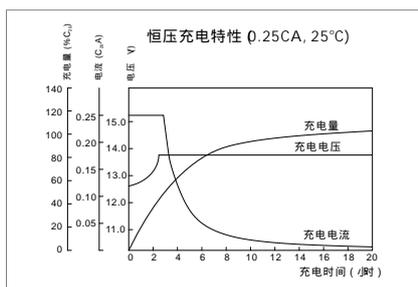
### International Brand Market Distribution



# AGM Battery CP Series

From 0.3Ah to 28Ah

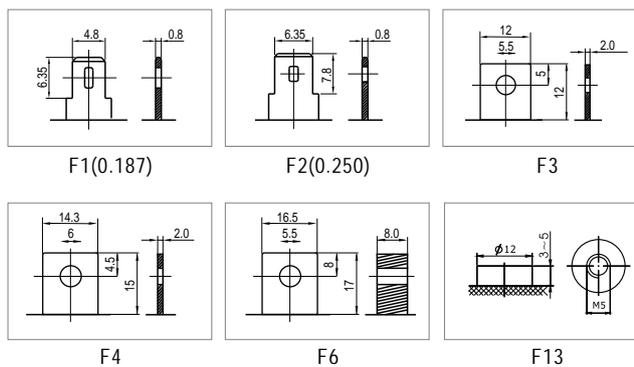
AGM电池 e 系列



## GENERAL FEATURES / 特点

- Sufficient Capacity
- 容量足
- Longer Life(Designed Life is up to 5 years)
- 使用寿命长, 可达5年
- Completely Maintenance-Free
- 完全免维护, 无需补水;
- Silver-gilt Copper Terminal, Low Resistance, High Output Power
- 端子采用镀银铜片, 内阻小, 输出功率高;
- Sealed Completely (No Leakage liquid, No Emitting Acid Gas)
- 完全密封(不渗漏液体, 无酸性气体溢出)
- Low Self Discharge
- 自放电小, 每月小于3%。

## TERMINAL / 端 ( 单位: 毫米 )



## APPLICATIONS / 应用领域

- Alarm Systems
- Cable Television
- Communications Equipment
- Control Equipment
- Computers
- Electronic Cash Registers
- Electric Test Equipment
- Electric Powered Bicycle and Wheel chairs
- Emergency lighting Systems
- Fire & Security Systems
- Geophysical Equipment
- Marine Equipment
- Medical Equipment
- Micro Processor Based Office Machines
- Portable Cine & Video Lights
- Power Tools
- Solar Powered Systems
- Telecommunications Systems
- Television & Video Recorders
- Toys
- Uninterruptible Power Supplies
- Vending Machines
- 医疗设备
- 播系统
- 发动机启动
- 紧急照明系统
- 电力电源
- UPS
- 算机备用电源
- 控系统
- 借设备
- 制系统
- 防和安全防卫系统

## CP SERIES SPECIFICATIONS / CP系列规格表

BATTERY TYPE 型号	NOMINAL VOLTAGE(V) 额定电压	20H RATE CAPACITY(Ah) 20小时率容量	LENGTH 长		WIDTH 宽		HEIGHT 高		TOTAL HEIGHT 总高		WEIGHT(APPROX) 重量		TERMINAL TYPE 端子类型
			mm	in	mm	in	mm	in	mm	in	Kg	Pound	
CP495	4	9.5	102	4.02	44	1.73	95	3.74	101	3.98	1.00	2.20	F1/F2
CP612	6	1.2	97	3.82	24	0.94	52	2.04	58	2.28	0.31	0.68	F1
CP645	6	4.5	70	2.76	47	1.85	101	3.98	107	4.21	0.78	1.72	F1+F2/F1
CP650	6	5	70	2.76	47	1.85	101	3.98	107	4.21	0.92	2.03	F1/F2
CP1223	12	2.3	178	7.00	35	1.38	61	2.40	67	2.64	0.99	2.18	F1
CP1245	12	4.5	90	3.54	70	2.76	101	3.98	107	4.21	1.72	3.79	F1
CP1250	12	5	90	3.54	70	2.75	101	3.98	107	4.21	1.80	3.97	F1/F2
CP1270	12	7	151	5.94	65	2.56	94	3.70	100	3.94	2.43	5.36	F1/F2
CP12100	12	10	151	5.94	98	3.86	95	3.74	101	3.98	3.70	8.16	F1/F2
CP12120	12	12	151	5.94	98	3.86	95	3.74	101	3.98	3.90	8.60	F1/F2

## PERFORMANCE DATA / 性能数据

恒电流放电性能 (安培 25°C)

CONSTANT CURRENT DISCHARGE (AMPERES) AT 25 °C TO 1.60 VOLTS PER CELL									
Battery Type	5min	10min	15min	30min	1h	3h	5h	10h	20h
CP495	38.0	28.5	20.0	11.5	6.50	2.67	1.84	0.92	0.48
CP612	5.00	3.50	2.50	1.45	0.82	0.36	0.22	0.11	0.06
CP645	16.0	11.2	9.00	4.80	3.06	1.24	0.78	0.47	0.23
CP650	16.8	13.5	10.0	5.20	3.20	1.39	0.84	0.50	0.26
CP1223	9.00	5.70	4.40	2.50	1.46	0.59	0.41	0.22	0.12
CP1245	15.9	12.9	8.95	4.77	3.04	1.23	0.78	0.47	0.23
CP1250	21.0	12.5	10.0	5.50	3.25	1.39	0.92	0.50	0.26
CP1270	29.1	18.4	14.8	8.30	4.56	1.84	1.26	0.70	0.36
CP12100	38.6	26.0	20.9	12.0	6.90	2.92	1.92	0.99	0.52
CP12120	46.4	31.7	24.8	13.8	8.14	3.18	2.12	1.18	0.61

**CONSTANT CURRENT DISCHARGE ( AMPERES ) AT 25 °C TO 1.65 VOLTS PER CELL**

Battery Type	5min	10min	15min	30min	1h	3h	5h	10h	20h
CP495	36.0	27.1	19.1	11.0	6.27	2.59	1.80	0.92	0.48
CP612	4.71	3.34	2.40	1.39	0.79	0.36	0.22	0.11	0.06
CP645	15.2	10.7	8.60	4.61	2.95	1.20	0.76	0.46	0.23
CP650	15.9	12.9	9.56	4.99	3.08	1.35	0.83	0.49	0.26
CP1223	8.64	5.47	4.27	2.41	1.38	0.57	0.40	0.22	0.12
CP1245	15.1	12.3	8.56	4.58	2.93	1.19	0.76	0.46	0.231
CP1250	19.9	11.9	9.56	5.28	3.13	1.35	0.90	0.49	0.26
CP1270	27.5	17.5	14.2	7.90	4.40	1.80	1.22	0.69	0.36
CP12100	36.6	24.8	19.9	11.4	6.65	2.85	1.84	0.97	0.51
CP12120	45.0	30.8	24.3	13.5	8.04	3.15	2.10	1.17	0.61

**CONSTANT CURRENT DISCHARGE ( AMPERES ) AT 25 °C TO 1.70 VOLTS PER CELL**

Battery Type	5min	10min	15min	30min	1h	3h	5h	10h	20h
CP495	34.0	25.7	18.2	10.6	6.02	2.50	1.75	0.91	0.48
CP612	4.36	3.12	2.27	1.31	0.75	0.35	0.21	0.11	0.06
CP645	14.3	10.1	8.19	4.41	2.83	1.16	0.74	0.45	0.23
CP650	15.0	12.2	9.10	4.77	2.96	1.30	0.80	0.48	0.25
CP1223	8.27	5.23	4.13	2.29	1.29	0.54	0.39	0.21	0.12
CP1245	14.2	11.7	5.15	4.38	2.81	1.15	0.74	0.45	0.23
CP1250	18.8	11.3	9.10	5.05	3.01	1.30	0.88	0.48	0.25
CP1270	26.0	16.7	13.6	7.62	4.22	1.74	1.17	0.69	0.36
CP12100	34.5	23.9	18.8	10.7	6.39	2.70	1.76	0.95	0.51
CP12120	43.5	29.9	23.7	13.3	7.94	3.12	2.07	1.16	0.61

**CONSTANT CURRENT DISCHARGE ( AMPERES ) AT 25 °C TO 1.75 VOLTS PER CELL**

Battery Type	5min	10min	15min	30min	1h	3h	5h	10h	20h
CP495	31.9	24.3	17.3	10.1	5.75	2.40	1.70	0.90	0.48
CP612	4.00	2.88	2.11	1.21	0.69	0.33	0.21	0.11	0.06
CP645	13.4	9.50	7.77	4.19	2.71	1.11	0.72	0.44	0.23
CP650	14.1	11.5	8.63	4.54	2.83	1.25	0.78	0.47	0.25
CP1223	7.89	4.98	3.98	2.16	1.19	0.49	0.37	0.20	0.12
CP1245	13.3	11.0	7.72	4.17	2.69	1.10	0.72	0.44	0.23
CP1250	17.6	10.6	8.63	4.81	2.88	1.25	0.85	0.47	0.25
CP1270	24.4	15.7	13.0	7.24	4.04	1.68	1.13	0.68	0.35
CP12100	32.4	23.1	17.7	10.0	6.10	2.55	1.69	0.93	0.50
CP12120	42.1	29.0	23.2	13.0	7.85	3.09	2.05	1.14	0.60

**CONSTANT CURRENT DISCHARGE ( AMPERES ) AT 25 °C TO 1.80 VOLTS PER CELL**

Battery Type	5min	10min	15min	30min	1h	3h	5h	10h	20h
CP495	29.7	22.8	16.3	9.53	5.47	2.29	1.64	0.87	0.472
CP612	3.55	2.61	1.95	1.08	0.63	0.31	0.21	0.11	0.06
CP645	12.5	9.00	7.33	3.98	2.58	1.06	0.69	0.43	0.221
CP650	13.1	10.8	8.14	4.31	2.70	1.19	0.75	0.46	0.25
CP1223	7.50	4.72	3.82	2.02	1.08	0.45	0.34	0.18	0.103
CP1245	12.4	10.4	7.29	3.95	2.56	1.06	0.69	0.43	0.221
CP1250	16.4	10.0	8.14	4.56	2.74	1.19	0.82	0.46	0.25
CP1270	22.8	14.8	12.4	7.03	3.84	1.63	1.08	0.66	0.344
CP12100	30.2	21.5	16.6	9.30	5.81	2.44	1.63	0.91	0.49
CP12120	40.6	28.2	22.6	12.7	7.75	3.06	2.02	1.12	0.59

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

# AGM Battery FM Series

From 17Ah to 230Ah

## AGM电池 网系列

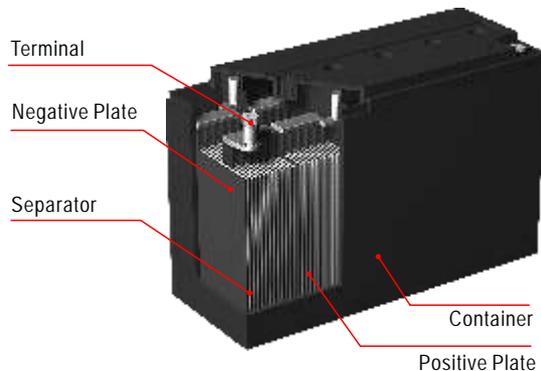
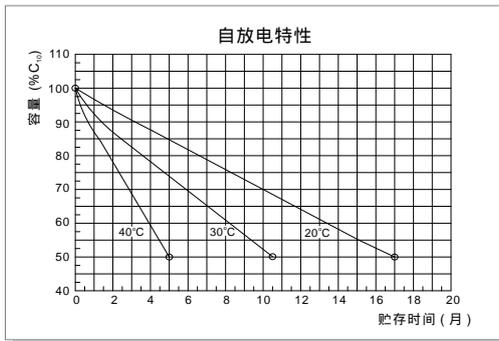
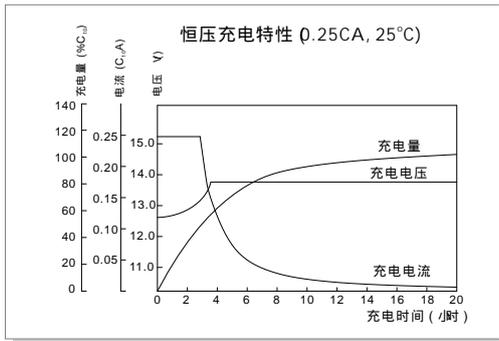


VISION FM series designed for general-purpose applications, such as UPS, telecom, and electrical utilities. With 10 years design life, the batteries comply to the most popular international standards, such as IEC60896-21/22, BS6290-4, Eurobat Guide.

威神FM系列按国际通行标准设计制造，普遍应用于备用电源、电信以及电力等行业，设计寿命达10年

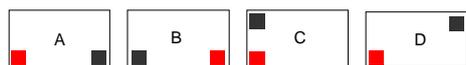
### GENERAL FEATURES / 特点

- Sufficient Capacity
- 容量足；
- Longer Life (Designed Life is up to 10 years);
- 使用寿命长，可达10年；
- Completely Maintenance-Free;
- 完全免维护，无需补水；
- Inlay Terminal, Low Resistance, High Output Power
- 端子采用镶嵌式端子，内阻小，输出功率高；
- Sealed Completely (No Leakage liquid, No Emitting Acid Gas)
- 完全密封（不渗漏液体，无酸性气体溢出）；
- Low Self Discharge.
- 自放电小，每月小于3%。



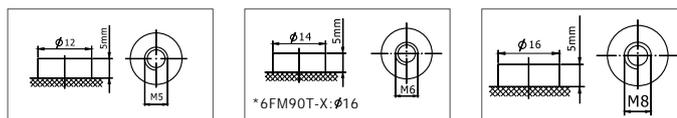


## POSITION OF TERMINALS ..... 端子位置



## TERMINAL 端 .....

单位：毫米



## FM SERIES / FM系列规格表

BATTERY TYPE 型号	NOMINAL VOLTAGE(V) 额定电压	CAPACITY(AH) 1.8VPC@10HR,25°C 容量	LENGTH 长		WIDTH 宽		HEIGHT 高		TOTAL HEIGHT 总高		WEIGHT(APPROX) 重量		TERMINAL TYPE 端子类型
			mm	in	mm	in	mm	in	mm	in	Kg	Pound	
FM17	12	17	181	7.13	77	3.03	167	6.57	167	6.57	5.7	12.57	M5
FM24	12	24	166	6.54	175	6.89	125	4.92	125	4.92	8.6	18.96	M5
FM40	12	40	197	7.76	165	6.50	170	6.69	170	6.69	13.5	29.76	M6
FM65	12	65	350	13.78	167	6.57	179	7.05	179	7.05	23.4	51.59	M6
FM100	12	100	330	12.99	171	6.73	215	8.46	220	8.66	32	70.55	M6
FM150	12	150	485	19.09	172	6.77	240	9.45	240	9.45	47	103.62	M8
FM200	12	200	522	20.55	238	9.37	218	8.58	223	8.78	65	143.30	M8

更多请浏览：<http://www.vision-batt.com>

## APPLICATIONS / 应用领域

- |                       |         |      |
|-----------------------|---------|------|
| • UPS                 | 船舶设备    | 铁路系统 |
| • Telecom Systems     | 有线电视    | 发电站  |
| • Solar Systems       | 军用设备    | 电力系统 |
| • Cable TV            | 紧急照明系统  |      |
| • Electric Wheelchair | 备用电力电源  |      |
| • Power Station       | 大型UPS   |      |
| • Marine Equipment    | 计算机备用电源 |      |
| • Military Equipment  | 发电站     |      |
| • Golf Car            | 电动轮椅    |      |
| • Electric Fork       | 高尔夫车    |      |
| • Emergency Power     | 电动叉车    |      |
| • System              |         |      |
| • Railway System      |         |      |

## PERFORMANCE DATA / 性能数据

恒电流放电性能 ( 安培 25°C )

AMPERES

CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C TO 1.60 VOLTS PER CELL																									
Battery Type	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
6FM17-X	67.0	45.3	35.6	27.8	23.1	20.0	17.7	16.0	14.7	13.6	12.7	12.0	8.41	6.61	5.54	4.82	3.80	3.18	2.73	2.41	2.17	1.98	1.83	1.56	0.82
6FM24-X	85.0	60.0	46.0	37.0	32.0	27.9	24.5	22.0	20.2	18.5	17.3	15.8	11.5	9.40	7.75	6.76	5.40	4.45	3.90	3.45	3.10	2.80	2.56	2.16	1.20
6FM40-X	131	93.0	73.3	57.6	48.3	42.0	37.4	34.0	31.3	29.1	27.4	25.9	18.3	14.5	12.2	10.7	8.60	7.36	6.33	5.60	5.05	4.62	4.28	3.61	1.87
6FM65-X	215	160	125	97.8	81.4	70.5	63.0	57.4	53.0	49.5	46.6	44.2	30.9	24.3	20.3	17.7	14.2	12.1	10.4	9.19	8.28	7.58	7.01	5.90	3.20
6FM100-X	229	185	146	123	108	96.3	87.4	80.5	74.8	70.1	66.2	62.2	47.1	37.5	31.8	27.9	22.4	19.0	16.3	14.3	12.9	11.7	10.8	9.06	4.70
6FM150-X	360	288	228	193	169	149	135	123	115	108	102	73.3	58.9	50.3	44.5	34.7	28.8	24.4	21.2	18.8	17.0	15.5	13.2	7.10	
6FM200-X	360	290	248	220	194	174	159	147	136	128	92.8	75.2	64.6	57.6	45.5	38.2	32.3	28.0	24.9	22.4	20.4	17.5	9.34		

CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C TO 1.65 VOLTS PER CELL																									
Battery Type	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
6FM17-X	64.9	44.2	34.0	26.8	22.5	19.6	17.4	15.7	14.4	13.4	12.5	11.8	8.20	6.40	5.32	4.60	3.68	3.13	2.67	2.34	2.10	1.90	1.75	1.49	0.78
6FM24-X	79.5	56.3	43.3	34.9	30.1	26.3	23.3	20.9	19.2	17.6	16.5	15.1	11.1	9.03	7.49	6.54	5.24	4.34	3.80	3.38	3.03	2.75	2.52	2.13	1.19
6FM40-X	124	88.4	68.9	54.8	46.3	40.7	36.4	33.1	30.6	28.6	27.0	25.6	18.0	14.2	11.9	10.4	8.43	7.24	6.23	5.51	4.98	4.56	4.22	3.55	1.86
6FM65-X	203	151	116	92.2	77.7	68.0	61.5	56.6	52.8	48.5	44.9	41.9	29.5	23.3	19.6	17.1	13.7	11.7	10.1	8.96	8.10	7.43	6.90	5.81	3.12
6FM100-X	221	178	141	119	104	93.2	85.0	78.7	72.2	66.9	62.5	45.1	36.4	31.2	27.7	21.8	18.3	15.7	13.9	12.5	11.5	10.6	9.01	4.68	
6FM150-X	327	267	214	183	162	144	131	120	112	105	99.0	71.6	57.9	49.7	44.2	34.2	28.2	23.9	20.9	18.6	16.8	15.4	13.1	7.05	
6FM200-X	350	281	240	212	187	168	153	141	132	124	89.8	72.7	62.4	55.6	44.1	37.2	31.6	27.5	24.5	22.2	20.3	17.3	9.29		

**CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C TO 1.70 VOLTS PER CELL**

Battery Type	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
6FM17-X	63.0	43.1	33.5	26.3	21.9	19.0	16.9	15.3	14.0	13.0	12.3	11.6	8.02	6.22	5.15	4.43	3.58	3.07	2.61	2.28	2.03	1.83	1.73	1.47	0.77
6FM24-X	74.0	52.5	40.5	32.8	28.3	24.7	22.0	19.8	18.1	16.7	15.7	14.4	10.7	8.65	7.23	6.31	5.08	4.24	3.70	3.30	2.95	2.69	2.48	2.10	1.17
6FM40-X	119	83.7	66.7	52.8	44.5	39.0	35.3	32.6	30.5	28.4	26.6	25.2	17.7	14.0	11.7	10.2	8.27	7.11	6.14	5.45	4.93	4.53	4.21	3.52	1.84
6FM65-X	191	143	114	90.2	75.8	66.3	59.4	54.2	50.1	46.7	43.8	41.5	29.2	23.1	19.4	16.9	13.5	11.5	9.92	8.79	7.95	7.29	6.76	5.75	3.06
6FM100-X	200	164	130	110	96.0	86.1	78.8	73.0	68.4	64.6	61.5	61.5	44.4	35.8	30.6	27.2	21.5	18.0	15.5	13.7	12.4	11.3	10.5	8.93	4.59
6FM150-X	313	259	210	180	160	142	129	118	109	102	96.3	96.3	70.1	56.9	49.1	43.8	33.7	27.6	23.5	20.5	18.3	16.6	15.2	12.9	6.96
6FM200-X	337	271	232	206	182	163	149	137	128	120	120	120	87.5	71.3	61.5	55.0	43.5	36.6	31.1	27.2	24.3	22.0	20.2	17.2	9.25

**CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C TO 1.75 VOLTS PER CELL**

Battery Type	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
6FM17-X	60.1	41.9	32.0	25.4	21.4	18.7	16.6	15.0	13.8	12.6	11.6	10.8	7.59	5.97	5.01	4.36	3.52	3.01	2.56	2.23	1.99	1.80	1.72	1.46	0.77
6FM24-X	68.5	48.8	37.8	30.6	26.4	23.1	20.8	18.6	17.1	15.7	14.8	13.7	10.2	8.28	6.96	6.09	4.91	4.13	3.60	3.23	2.88	2.64	2.44	2.07	1.16
6FM40-X	110	79.1	64.9	51.5	43.4	38.0	34.3	31.5	29.3	27.5	26.1	24.9	17.4	13.7	11.4	9.95	8.11	7.00	6.02	5.33	4.81	4.40	4.07	3.48	1.82
6FM65-X	178	132	108	87.1	74.6	66.2	59.2	53.9	49.8	46.2	43.3	40.9	28.8	22.8	19.2	16.7	13.3	11.3	9.74	8.62	7.78	7.13	6.61	5.62	2.97
6FM100-X	187	153	123	105	93.0	83.7	76.7	71.3	67.0	63.4	60.5	60.5	43.7	35.3	30.2	26.9	21.0	17.5	15.1	13.4	12.1	11.1	10.3	8.76	4.50
6FM150-X	288	240	198	173	156	138	125	114	106	99.0	93.4	93.4	68.4	55.9	48.4	43.4	33.2	27.0	23.0	20.2	18.1	16.4	15.1	12.8	6.91
6FM200-X	319	260	224	200	177	159	145	134	125	117	117	117	85.2	69.3	59.8	53.4	42.5	36.0	30.7	26.9	24.1	21.9	20.1	17.1	9.20

**CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C TO 1.80 VOLTS PER CELL**

Battery Type	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
6FM17-X	57.4	40.8	31.0	24.5	20.6	18.0	16.1	14.6	13.5	12.3	11.3	10.5	7.39	5.84	4.90	4.28	3.44	2.93	2.49	2.18	1.95	1.77	1.70	1.45	0.76
6FM24-X	63.0	45.0	35.0	28.5	24.5	21.5	19.5	17.5	16.0	14.8	14.0	13.0	9.80	7.90	6.70	5.86	4.75	4.02	3.50	3.15	2.80	2.58	2.40	2.04	1.14
6FM40-X	101	71.9	58.7	47.5	40.8	36.3	33.1	30.8	28.9	26.9	25.2	23.8	16.8	13.2	11.1	9.72	7.90	6.80	5.87	5.20	4.70	4.31	4.00	3.40	1.79
6FM65-X	165	120	100	80.9	69.4	61.8	55.6	50.9	47.3	43.7	40.7	38.3	27.3	21.8	18.5	16.3	13.0	11.1	9.57	8.47	7.65	7.01	6.50	5.53	2.86
6FM100-X	175	143	117	101	91.0	82.0	75.3	70.0	65.0	60.8	57.4	57.4	41.4	33.3	28.5	25.3	20.2	17.2	14.8	13.1	11.8	10.8	10.0	8.50	4.42
6FM150-X	264	222	186	164	150	133	120	110	102	95.8	90.5	90.5	66.0	53.7	46.3	41.4	32.1	26.5	22.7	19.9	17.9	16.3	15.0	12.7	6.87
6FM200-X	269	228	203	187	167	152	140	130	121	114	114	114	82.5	66.8	57.3	51.0	41.3	35.4	30.3	26.6	23.9	21.7	20.0	17.0	9.16

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

# AGM Battery CL Series

From 100Ah to 3000Ah

AGM电池 C 系列



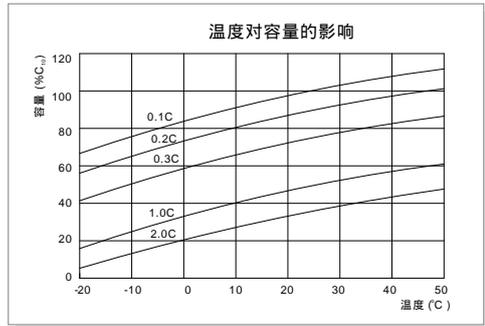
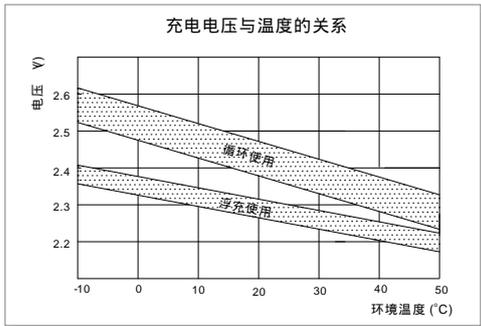
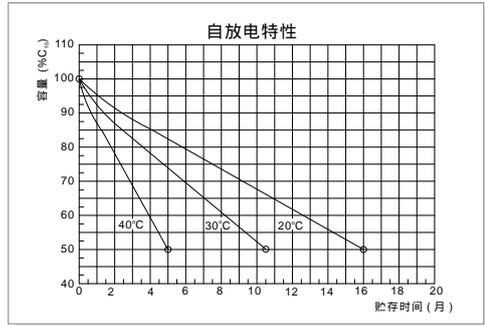
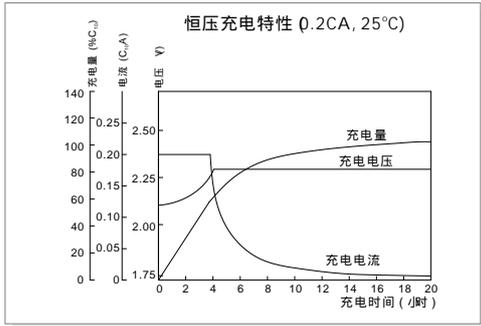
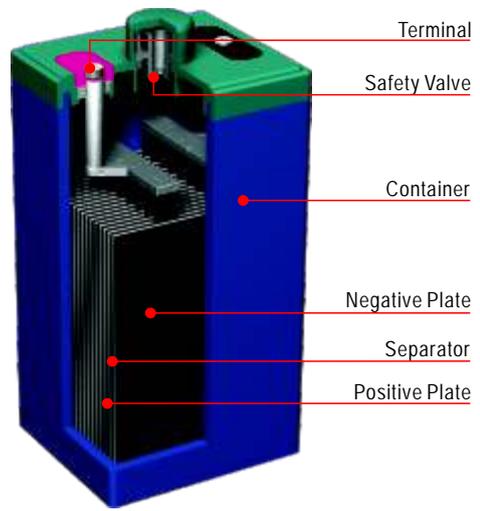
VISION CL series of VRLA batteries are recognized as the most reliable and high quality battery system in the industry. VISION CL series batteries designed with advanced AGM(Absorbent Glass Mat) technology, Long service life designed with 20 years, the batteries comply to the most popular international standards, such as IEC896-2, BS6290-4, Eurobat Guide.

威神CL系列被公认为业内最可靠和高质量的电池系统，该电池打用先进的AGM技术设计，采用国际通行标准，使用寿命可达20年

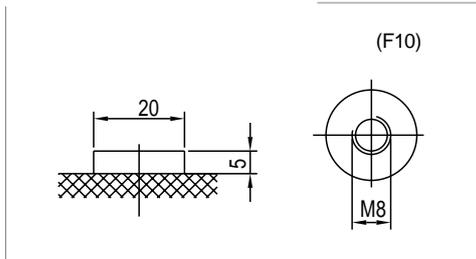


## GENERAL FEATURES 特点

- Sufficient Capacity
- 容量足；
- Longer Life(Designed Life is up to 20 years)
- 使用寿命长，可达20年
- Completely Maintenance-Free
- 完全免维护，无需补水；
- Electrolyte absorbed within Plates and Separator
- 无游离电解液，电解液吸附在极板和隔板内；
- Specially Designed Construction, No Leakage Liquid
- 特殊密封结构，不漏液；
- Low Resistance, High Output Power
- 内阻小，输出功率高；
- Exploding Prevent
- 防爆。



## TERMINAL / 端 ( 僅: 毫米 )



## APPLICATIONS 应用领域

- Communication equipment
- Telecommunication control equipment
- Emergency lighting systems
- Electric power systems
- Power station
- Nuclear power station
- Solar powered and wind powered systems
- Load leveling and storage equipment
- Marine equipment
- Power generation plants
- Alarm systems
- Uninterruptible power supplies and
- stand-by power for computers
- Medical equipment
- Fire and security systems
- Control equipment
- Stand-by electric power
- 电信设备
- 电话交换机
- 紧急照明系统
- 电力系统
- 发电站
- 核电站
- 太阳能、风电站等
- 峰值负载补偿储能装置

## CL SERIES / CL系列规格表

BATTERY TYPE 型号	NOMINAL VOLTAGE(V) 额定电压	10H RATE CAPACITY(Ah) 10小时率容量	LENGTH 长		WIDTH 宽		HEIGHT 高		TOTAL HEIGHT 总高		WEIGHT(APPROX) 重量		TERMINAL TYPE 端子类型
			mm	in	mm	in	mm	in	mm	in	Kg	Pound	
CL100	2	100	171	6.73	72	2.83	206	8.11	211	8.31	7.2	15.9	M8
CL200	2	200	173	6.81	111	4.37	330	13.0	364	14.3	15	33.1	M8
CL300	2	300	171	6.73	151	5.94	330	13.0	364	14.3	21	46.3	M8
CL500	2	500	241	9.49	175	6.89	330	13.0	365	14.4	33.0	72.8	M8
CL600	2	600	302	11.9	175	6.89	330	13.0	367	14.4	42	92.6	M8
CL1000	2	1000	475	18.7	175	6.89	330	13.0	367	14.4	66.5	147	M8
CL1500	2	1500	400	15.7	350	13.8	345	13.6	382	15	100	220	M8
CL2000	2	2000	490	19.3	350	13.8	345	13.6	382	15	132	291	M8

更多请浏览：<http://www.vision-batt.com>

## PERFORMANCE DATA / 性能数据

恒电流放电性能 (安培 25°C)

CONSTANT CURRENT DISCHARGE (AMPERES) AT 25 °C TO 1.60 VOLTS PER CELL								
Battery Type	10min	15min	30min	45min	1h	3h	5h	10h
CL100	199	149	99.0	82.0	65.0	27.8	19.5	10.8
CL200	392	294	196	162	124	56.6	39.3	21.4
CL300	493	443	325	240	195	89.5	58.7	32.1
CL500	937	711	505	383	300	138	96.6	53.9
CL600	1161	887	618	480	364	186	115	65
CL1000	1855	1408	1063	758	620	261	195	108
CL1500	2724	2048	1500	1132	930	408	288	161
CL2000	3636	2734	2109	1505	1240	545	384	214

## PERFORMANCE DATA / 性能数据

恒电流放电性能 ( 安培 25°C )

CONSTANT CURRENT DISCHARGE ( AMPERES ) AT 25 °C TO 1.65 VOLTS PER CELL								
Battery Type	10min	15min	30min	45min	1h	3h	5h	10h
CL100	189	142	95.0	79.0	62.6	26.9	19.1	10.6
CL200	372	280	187	155	120	54.8	38.4	21.2
CL300	467	422	311	230	188	86.8	57.4	31.8
CL500	888	677	482	368	290	134	94.7	53.1
CL600	1101	844	590	461	351	181	113	64.0
CL1000	1758	1340	1016	728	602	256	190	106
CL1500	2583	1950	1433	1087	900	395	282	159
CL2000	3447	2603	2016	1445	1214	527	379	212

CONSTANT CURRENT DISCHARGE ( AMPERES ) AT 25 °C TO 1.70 VOLTS PER CELL								
Battery Type	10min	15min	30min	45min	1h	3h	5h	10h
CL100	178	135	91.0	75.0	60.0	26.1	18.6	10.4
CL200	350	265	178	148	115	52.9	37.4	20.9
CL300	440	400	296	220	180	84.0	55.9	31.3
CL500	837	642	460	352	278	129	92.5	52.2
CL600	1038	800	562	440	337	174	111	63.0
CL1000	1658	1270	967	696	582	253	185	104
CL1500	2436	1848	1365	1039	870	381	276	157
CL2000	3250	2468	1919	1381	1185	508	371	209

CONSTANT CURRENT DISCHARGE ( AMPERES ) AT 25 °C TO 1.75 VOLTS PER CELL								
Battery Type	10min	15min	30min	45min	1h	3h	5h	10h
CL100	167	127	86.0	72.0	57.3	25.0	18.0	10.2
CL200	329	250	169	141	110	50.8	36.3	20.5
CL300	413	378	280	210	173	81.3	54.2	30.7
CL500	785	606	435	335	266	124	90.0	51.2
CL600	974	755	533	419	322	167	108	61.0
CL1000	1555	1199	917	663	546	250	180	102
CL1500	2285	1745	1294	989	833	366	270	153
CL2000	3049	2329	1820	1315	1154	500	360	205

CONSTANT CURRENT DISCHARGE ( AMPERES ) AT 25 °C TO 1.80 VOLTS PER CELL								
Battery Type	10min	15min	30min	45min	1h	3h	5h	10h
CL100	156	120	81.0	68.0	54.6	23.9	17.4	10.0
CL200	307	235	160	134	104	48.6	35.0	20.0
CL300	385	355	265	199	165	78.5	52.3	30.0
CL500	733	570	411	317	253	118	86.5	50.0
CL600	909	710	503	397	307	160	105	60.0
CL1000	1451	1127	866	628	534	243	173	100
CL1500	2131	1640	1221	938	795	350	262	150
CL2000	2844	2190	1718	1247	1125	473	332	200

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

# AGM Battery CT Series

From 0.3Ah to 28Ah

AGM电池 C 系列



## COMMUNICATION BATTERIES(CT SERIES)

BATTERY TYPE 型号	NOMINAL VOLTAGE(V) 额定电压	10H RATE CAPACITY(AH) 10小时率容量	LENGTH 长		WIDTH 宽		HEIGHT 高		TOTAL HEIGHT 总高		WEIGHT(APPROX) 重量		TERMINAL TYPE 端子类型
			mm	in	mm	in	mm	in	mm	in	Kg	Pound	
CT12-50X	12	50	277	10.91	106	4.17	222	8.74	229	9.02	17.3	38.1	M6
CT12-80X	12	80	564	22.20	115	4.53	189	7.44	189	7.44	28.2	62.2	F19
CT12-100X	12	100	508	20.00	110	4.33	223	8.78	238	9.37	32.0	70.5	F12
CT12-105X	12	105	395	15.55	110	4.33	286	11.26	293	11.54	35.0	77.2	M8
CT12-125X	12	125	436	17.17	108	4.25	317	12.48	317	12.48	41.0	90.4	M8
CT12-140X	12	140	552	21.73	110	4.33	288	11.34	295	11.60	49.0	108.0	F12
CT12-180X	12	180	546	21.50	125	4.92	317	12.48	323	12.72	60.0	132.3	M8

更多请浏览：<http://www.vision-batt.com>

The new VISION CTA series of VRLA batteries has been specially designed for use in telecom systems. VISION CTA series batteries are recognized as the best ones for telecom applications. With front access terminals, it is easy for installing and taking voltage readings during service. VISION CTA delivers high performance while occupying less space than conventional battery series.

威神CTA系列专为电信等设计制造，被公认为在电信应用方面最好的电池之一；产品的前端子设计便于工作于安装，以比普通电池更少的空间，提供更高的性能。



## PERFORMANCE DATA / 性能数据

恒电流放电性能 (安培 温度 °C)

CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C TO 1.60 VOLTS PER CELL																								
Battery Type	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
CT12-50X	109	88.2	72.9	63.7	57.6	51.8	47.4	44.0	40.5	37.6	35.2	24.9	19.7	16.6	14.5	11.2	9.26	7.85	6.85	6.10	5.51	5.04	4.35	2.27
CT12-80X	174	141	117	102	92.1	82.8	75.8	70.4	64.8	60.1	56.3	39.8	31.5	26.5	23.2	18.0	14.8	12.6	11.0	9.75	8.82	8.07	6.97	3.63
CT12-100X	218	176	146	127	115	103	94.8	88.0	81.0	75.2	70.4	49.8	39.4	33.2	29.1	22.5	18.5	15.7	13.7	12.2	11.0	10.1	8.72	4.55
CT12-105X	229	185	153	134	121	109	99.6	92.4	85.0	78.9	73.9	52.2	41.4	34.8	30.5	23.6	19.4	16.5	14.4	12.8	11.6	10.6	9.15	4.77
CT12-125X	255	211	175	153	138	123	112	103	95.8	89.9	85.0	60.1	47.7	40.2	35.2	27.9	23.5	20.0	17.4	15.6	14.1	12.9	11.1	5.81
CT12-140X	305	257	210	181	162	144	130.5	120	110	101	94.4	66.9	53.1	44.8	39.3	31.3	26.5	22.5	19.6	17.4	15.7	14.4	12.4	6.48
CT12-180X	300	249	218	197	175	158	145	134	125	118	84.5	67.8	57.7	51	3	9.8	33	28.1	24.7	22.1	20.0	18.4	15.9	8.28

CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C TO 1.65 VOLTS PER CELL																								
Battery Type	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
CT12-50X	101	82.7	69.1	60.9	55.5	50.0	45.9	42.7	39.4	36.7	34.5	24.4	19.4	16.3	14.3	11.1	9.19	7.80	6.81	6.07	5.49	5.03	4.34	2.26
CT12-80X	161	133	111	98	88.7	80.0	73.4	68.3	63.1	58.8	55.2	39.1	31.0	26.1	22.9	17.8	14.7	12.5	10.9	9.71	8.79	8.05	6.95	3.62
CT12-100X	201	165	138	122	111	100	91.8	85.4	78.8	73.5	69	48.8	38.7	32.6	28.6	22.2	18.4	15.6	13.7	12.2	11.0	10.1	8.72	4.55
CT12-105X	212	174	146	128	117	105	96.5	89.7	82.8	77.1	72.4	51.3	40.7	34.3	30.1	23.4	19.3	16.4	14.3	12.8	11.6	10.6	9.15	4.77
CT12-125X	237	200	167	147	134	120	109	101	94.1	88.5	83.8	59.4	47.1	39.8	34.9	27.7	23.3	19.8	17.3	15.4	14.0	12.8	11.1	5.76
CT12-140X	280	239	198	173	156	139	127	117	107	99.3	92.6	65.8	52.3	44.3	38.9	31.1	26.4	22.4	19.5	17.3	15.6	14.3	12.3	6.44
CT12-180X	285	239	211	192	171	155	143	132	123	116	83.2	66.7	56.9	50.3	39.4	32.8	28.0	24.5	21.9	19.9	18.3	15.8	8.24	

CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C TO 1.70 VOLTS PER CELL

Battery Type	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
CT12-50X	93	77.1	65	58	53.3	48	44.4	41.4	38.4	35.9	33.8	24.0	19.0	16.1	14.1	11.0	9.13	7.76	6.78	6.05	5.48	5.02	4.33	2.26
CT12-80X	149	123	104	93	85.2	77.1	71.0	66.3	61.4	57.4	54	38.3	30.5	25.7	22.6	17.6	14.6	12.4	10.9	9.68	8.77	8.04	6.94	3.62
CT12-100X	185	154	131	116	107	96.6	88.9	82.8	76.7	71.7	67.6	47.9	38.1	32.1	28.2	22.0	18.3	15.5	13.6	12.1	10.9	10.0	8.63	4.50
CT12-105X	195	162	137	122	112	101	93.3	87.0	80.6	75.3	71	50	39.9	33.7	29.6	23.1	19.2	16.3	14.2	12.7	11.5	10.5	9.07	4.73
CT12-125X	219	188	160	142	131	117	107	99	92	87	83	59	46.6	39.4	34.6	27.5	23.2	19.7	17.2	15.3	13.9	12.7	11.0	5.72
CT12-140X	254	221	186	164	150	134	122	113	104	97	91	65	51.6	43.8	38.6	30.9	26.3	22.3	19.4	17.2	15.5	14.2	12.3	6.39
CT12-180X	269	228	203	187	167	152	140	130	121	114	82	65.6	56.0	49.5	38.9	32.6	27.8	24.4	21.8	19.8	18.2	15.7	15.7	8.19

CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C TO 1.75 VOLTS PER CELL

Battery Type	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
CT12-50X	85	71.6	61	55	51.2	46	42.9	40.1	37.3	35.0	33.1	23.5	18.6	15.7	13.8	10.8	9.06	7.71	6.75	6.02	5.46	5.01	4.33	2.25
CT12-80X	136	115	98	88	81.6	74.1	68.6	64.2	59.7	56.0	52.9	37.6	29.9	25.3	22.2	17.4	14.5	12.3	10.8	9.64	8.74	8.02	6.92	3.61
CT12-100X	169	143	123	110	102	92.7	85.7	80.2	74.6	69.9	66.1	46.9	37.3	31.5	27.7	21.7	18.1	15.4	13.5	12.0	10.9	10.0	8.63	4.50
CT12-105X	178	151	130	117	108	97.8	90.2	84.2	78.3	73.4	69	49	39.3	33.2	29.2	22.8	19	16.2	14.1	12.6	11.4	10.5	9.07	4.73
CT12-125X	201	177	152	137	127	114	105	97	91	86	81	58	46.1	39.0	34.3	27.2	23	19.5	17.1	15.2	13.8	12.6	10.9	5.67
CT12-140X	229	203	173	155	143	129	118	110	102	95	89	64	51.0	43.4	38.3	30.7	26.1	22.1	19.2	17.1	15.4	14.1	12.2	6.35
CT12-180X	285	254	218	196	181	163	149	138	127	118	111	80	64.4	55.0	48.8	38.5	32.3	27.6	24.2	21.7	19.7	18.1	15.6	8.15

CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C TO 1.80 VOLTS PER CELL

Battery Type	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	60min	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
CT12-50X	77.0	66.0	57.5	52.4	49.0	44.6	41.4	38.8	36.2	34.1	32.4	23.0	18.3	15.5	13.6	10.7	9.00	7.67	6.71	6.00	5.44	5.00	4.32	2.25
CT12-80X	122	105	92	83	78.1	71.2	66.1	62.1	58.0	55	51.8	36.8	29.3	24.8	21.8	17.2	14.4	12.3	10.7	9.60	8.71	8.00	6.91	3.60
CT12-100X	153	132	115	105	98	89.3	82.7	77.6	72.4	68	64.7	46.0	36.7	31.0	27.3	21.5	18	15.3	13.4	12.0	10.9	10.0	8.63	4.50
CT12-105X	161	139	122	111	104	94.4	87.1	81.5	76.1	71.6	67.9	48.3	38.5	32.6	28.7	22.6	18.9	16.1	14.1	12.6	11.4	10.5	9.07	4.73
CT12-125X	183	165	144	131	123	111	102	95	89	84.1	80.0	57.0	45.5	38.6	34	27.0	22.8	19.4	16.9	15.1	13.6	12.5	10.8	5.63
CT12-140X	203	185	161	147	137	124	114	106	98	92.2	87.0	62.5	50.3	42.9	38	30.5	26	22.0	19.1	17.0	15.3	14.0	12.1	6.30
CT12-180X	261	238	207	188	176	158	145	135	125	116	109	78.5	63.3	54.1	48	38.1	32.1	27.4	24.0	21.5	19.6	18.0	15.5	8.10

(Note) The above characteristics data are a average values obtained within three charge/discharge cycles not the minimum values.

# GEL Battery CG Series

From 21Ah to 860Ah

## 胶体电池 G系列



Gel battery shows some distinctive advantages over flooded battery or AGM battery, such as super thermal stability, high deep discharge capability, good recovery from deep discharge, even if the battery is left discharged for thirty days, it will still recover to 100% of capacity. With the above-mentioned advantages, the gel battery has long service life, is specially suitable for motive power applications, such as golf trailer, scrubber, forklift, etc. The deep discharge cycles increased 50% as compared with the AGM battery.

胶体电池能够显著延长电池的循环寿命，并且体现良好的低温性能，并且与普通AGM电池相比，胶体电池能够提高50%以上的深循环放电性能。

威神胶体蓄电池采用德国著名胶体电池隔板厂商打造的高孔率PVC-SiO<sub>2</sub>隔板和世界领先的技术制造，采用二氧化硅凝胶固定电解液。

## GENERAL FEATURES / 特点

世界著名胶体电池隔板厂商打造的高孔率PVC-SiO<sub>2</sub>隔板，超强的防氧化性能，使其寿命超过30年；孔率为74%，排酸量180m<sup>3</sup>/m<sup>2</sup>，孔径多在1~10 μm之间有效地防止了铅枝晶短路。

- 深放电恢复能力强；可以在30日未及时补充电的情况下达到100%的容量恢复，因此可以用于不能及时补充电的工况，天气情况多变的太阳能光伏系统等。
- 独特的铅钙锡铝板深循环铅膏配方与铸造工艺，能够提高电池的深循环寿命并且环保节能。
- 富液式设计，采用低密度的胶体电解液有效保护了正板栅，最大程度上延长了电池的寿命。
- 采用了低密度的电解液与独特的纳米二氧化硅凝胶工艺，浮充电压较低，使板栅的受腐蚀程度达到了最大程度的缓解，延长了浮充使用时的寿命。

## GEL BATTERY CG SERIES / 胶体系列规格表

BATTERY TYPE 型号	NOMINAL VOLTAGE(V) 额定电压	10H RATE CAPACITY(Ah) 10小时率容量	LENGTH 长		WIDTH 宽		HEIGHT 高		TOTAL HEIGHT 总高		WEIGHT(APPROX) 重量		TERMINAL TYPE 端子类型
			mm	in	mm	in	mm	in	mm	in	Kg	Pound	
CG2-200	2	170	173	6.81	111	4.37	330	12.99	364	14.33	14.5	31.97	M8
CG2-300	2	260	171	6.73	151	5.94	330	12.99	364	14.33	21.0	46.30	M8
CG2-400	2	350	210	8.27	176	6.93	330	12.99	367	14.45	28.0	61.73	M8
CG2-500	2	430	241	9.49	175	6.89	330	12.99	365	14.37	33.0	72.75	M8
CG2-600	2	520	302	11.89	175	6.89	330	12.99	367	14.45	42.0	92.59	M8
CG2-800	2	720	410	16.14	175	6.89	330	12.99	367	14.45	57.0	125.66	M8
CG2-1000	2	860	475	18.70	175	6.89	330	12.99	367	14.45	67.0	147.71	M8
CG8-150R	8	110	260	10.24	180	7.09	253	9.96	274	10.79	28.8	63.49	M6
CG12-24X	12	21	166	6.54	175	6.89	125	4.92	125	4.92	8.6	18.96	M6
CG12-33X	12	24	195	7.68	130	5.12	155	6.10	168	6.61	10.2	22.49	M6
CG12-40X	12	32	197	7.76	165	6.50	170	6.69	170	6.69	13.7	30.20	M6
CG12-65X	12	55	350	13.78	167	6.57	179	7.05	183	7.20	21.7	47.84	M6
CG12-90X	12	74	306	12.05	169	6.65	210	8.27	215	8.46	30.0	66.14	M6
CG12-120X	12	103	410	16.14	176	6.93	227	8.94	227	8.94	36.0	79.37	M8
CG12-150X	12	120	485	19.09	172	6.77	240	9.45	240	9.45	47.0	103.62	M8
CG12-175X	12	150	530	20.87	209	8.23	215	8.46	220	8.66	58.5	128.97	M8
CG12-200X	12	170	522	20.55	238	9.37	218	8.58	223	8.78	66.5	146.60	M8
CG12-230X	12	200	520	20.47	269	10.59	203	7.99	208	8.19	70.0	154.32	M8

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## TECHNOLOGY PARAMETER / 技术参数

Battery model	CG12-150X				CG2-300			
Nominal voltage	12V				2V			
Number of cell	6				1			
Capacity (25 °C)	20hR(6.6A, 10.5V)	10hR(13A, 10.5V)	5hR(24.9A, 10.5V)	1hR(105A, 9.60V)	10hR(28A, 1.75V)	5hR(49.9A, 1.75V)	1hR(205A, 1.60V)	
	132Ah	130Ah	124.5Ah	105Ah	280Ah	249.5Ah	205Ah	
Dimensions Max.	Length	Width	Height	Total Height	Length	Width	Height	Total Height
	522±1 mm	238±1 mm	218±1 mm	223±1 mm	171±2 mm	151±2 mm	330±2 mm	364±2 mm
Approx. weight	47.0Kg (103.6 lbs)				18.0Kg (39.7 lbs)			
Internal resistance	Full charged at 25 °C : 4.5mOhms				Full charged at 25 °C : 0.7mOhms			
Self discharge	3% of capacity declined per month at 20 °C (average)				2% of capacity declined per month at 20 °C (average)			
Operating temperature range	Discharge	Charge	Storage		Discharge	Charge	Storage	
	-20 ~ 60	-10 ~ 60	-20 ~ 60		-20 ~ 60	-10 ~ 60	-20 ~ 60	
Max. discharge current (25 °C)	750A (5s)				1200A (5s)			

## APPLICATIONS / 应用领域

- Longer Service Life
- High Reliability and Quality
- High Power Density
- Excellent Recovery from Deep Discharge
- Living Up to Prevailing Standards
- Non-sensitive--to Occasional Deep Discharges

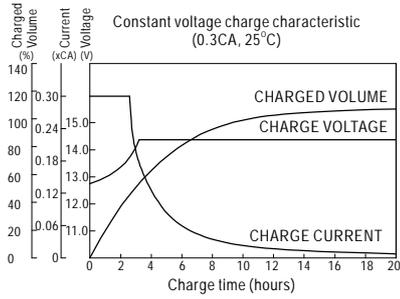
## PERFORMANCE DATA / 性能数据

恒电流放电性能 (安培 25°C)

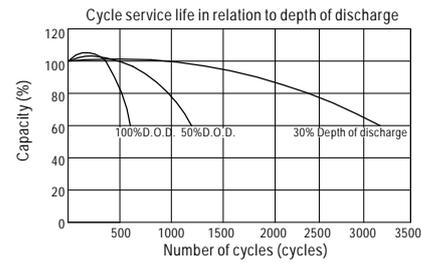
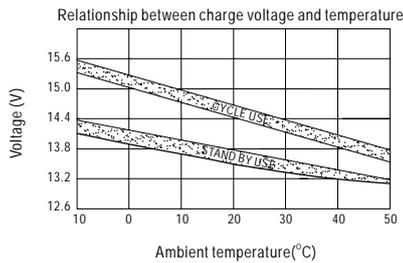
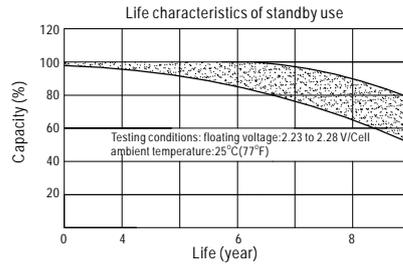
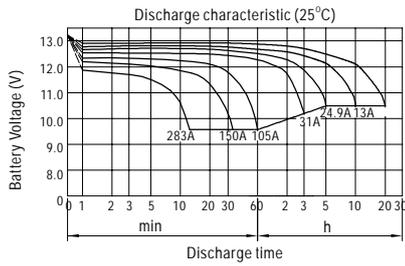
CONSTANT CURRENT DISCHARGE RATING-AMPERES AT 25°C(77°F)																	
End point volts/cell	CG12-150X								CG2-300								
	10min	15min	30min	45min	1h	3h	5h	10h	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	350	283	181	131	105	42.5	25.7	13.2	682.2	534.5	347.7	254.5	205.2	84.5	52.9	29.5	14.9
1.65V	330	270	174	128	103	42.0	25.4	13.2	636.4	504	333.5	246.9	199.6	83	51.9	29	14.7
1.70V	310	258	168	126	101	41.5	25.2	13.1	595.6	475	319.7	238.3	194	80.9	50.9	28.5	14.5
1.75V	290	245	161	123	99.0	41.0	24.9	13.0	549.8	446	305.5	229.1	188.4	78.9	49.9	28	14.3
1.80V	270	233	155	121	97.0	40.5	24.7	12.9	506.5	416.9	291.7	220.4	182.8	76.9	48.9	27.5	14.1

CONSTANT POWER DISCHARGE RATING-WATTS PER CELL AT 25°C(77°F)																	
End point volts/cell	CG12-150X								CG2-300								
	10min	15min	30min	45min	1h	3h	5h	10h	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	610	490	320	240	195	83.8	51.5	26.6	1196.4	967.3	636.4	473.5	386.9	160.4	101.8	57.5	29
1.65V	577.5	472.5	310	235	191.8	83.1	51.1	26.5	1125.1	916.4	610.9	458.2	376.7	157.3	100.3	57	28.8
1.70V	545	455	300	230	188.5	82.4	50.6	26.4	1048.7	865.5	590.5	442.9	366.5	154.3	98.8	56	28.5
1.75V	512.5	437.5	290	225	185.3	81.6	50.2	26.3	977.5	814.5	565.1	427.6	356.4	150.7	97.2	55.5	28.3
1.80V	480	420	280	220	182	80.9	49.7	26.1	901.1	763.6	539.6	412.4	346.2	147.6	95.7	54.5	28

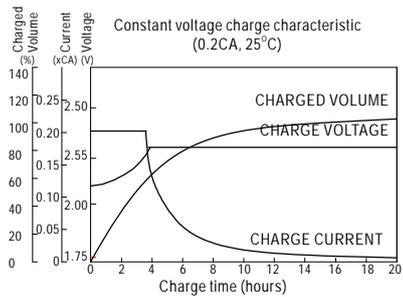
CG12-150X



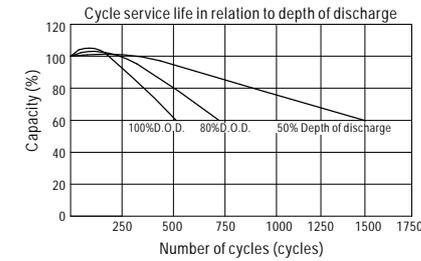
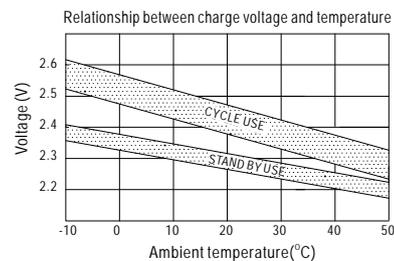
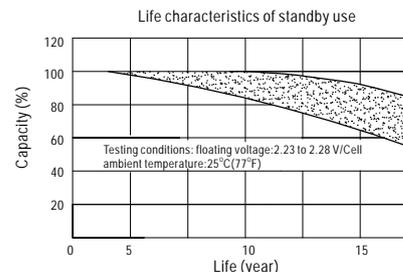
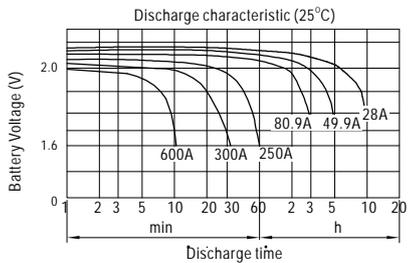
**CHARGE METHODS:** Constant voltage Charging at 25°C  
 Standby use: No charge current limit is required  
 Charge voltage: 13.38-13.68Volts  
 Cyclic use: Maximum charge current: 30% of rated capacity  
 Charge voltage: 14.28-14.52Volts  
**Temperature compensation:**  
 Standby use: -20mV/°C  
 Cyclic use: -30mV/°C



CG2-300



**CHARGE METHODS:** Constant voltage Charging at 25°C  
 Standby use: No charge current limit is required  
 Charge voltage: 2.25-2.30Volts  
 Cyclic use: Maximum charge current: 20% of rated capacity  
 Charge voltage: 2.35-2.45Volts  
**Temperature compensation:**  
 Standby use: -3.3mV/°C  
 Cyclic use: -5mV/°C



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